



Quarterly Progress Report #26
July/August/September 2019

To:	Brian Kelly, U.S. EPA Christopher Black, U.S. EPA Richard Clarizio, U.S. EPA Lori Kozel, Tetra Tech Licia Yangouyian, City of Dearborn Alan Loebach, City of Dearborn Jeff Watson, City of Dearborn	Ref. No.:	048041
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MJ.

From:	Glenn Turchan, Project Coordinator/kf/26	Date:	October 15, 2019
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CC:	Anastasia Bremmer, Ford Bert Richnafsky, Weavertown Grant Gilezan, Dykema Gossett
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Re:	Removal Action Quarterly Progress Report #26 (July, August, and September 2019) (Pursuant to Section 92 of the AOC and Section 3.2 of the Removal Action Work Plan) Former Dearborn Refining Site Dearborn, Michigan
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A. Due Date: October 15, 2019

B. Previous Activities – July/August/September

- Submitted the Dearborn Refining Site (Site) Quarterly Progress Report #25 for April, May, and June 2019 to the United States Environmental Protection Agency (U.S. EPA), Tetra Tech, Inc. (Tetra Tech), and the City of Dearborn on July 15, 2019.
- Submitted the sentry well data to Ferrous Processing and Trading Company (FPT) on August 15, 2019.
- Tetra Tech requested the Excel file for Table 4 of Quarterly Progress Report #25 on August 21, 2019. The Excel file was submitted to Tetra Tech on August 22, 2019.
- Completed field activities on August 21 and 22, 2019 to repair the monitoring well MW6-10 riser, locate gas probe GP-6 and sentry well MW11-12, and install missing sentry well location markers, as identified in Quarterly Progress Report #25.



- Notified the U.S. EPA on August 23, 2019 that the July, August, and September 2019 quarterly Operation, Maintenance, and Monitoring (OMM) activities, including the annual sampling event, were scheduled to be completed on September 6, 9, and 10, 2019.
- Received comments from the U.S. EPA regarding the methane readings on August 28 and 29, 2019.
- Completed the July, August, and September 2019 quarterly OMM activities including the annual groundwater monitoring well (perched water) and gas probe (vapor) sampling on September 6, 9, and 10, 2019. Additional methane monitoring was completed during this annual monitoring event, as requested by the U.S. EPA on March 19, 2018 and consistent with the July, August, and September 2018 quarterly OMM event. The additional monitoring included the collection of methane readings prior to closing the gas vents (the gas vents are closed prior to all annual monitoring events consistent with the OMM Plan). It should be noted that there was low wind on Site on September 6, 2019 and September 9, 2019 during the methane monitoring activities. The inspection forms are presented in Attachment A. Water levels for the OMM wells are presented in Table 1. Light non-aqueous phase liquid (LNAPL) observations for all Site and sentry wells are presented in Table 2. Gas probe pressure readings are presented in Table 3. The groundwater levels, LNAPL observations, and gas probe readings are presented on Figure 1. The methane monitoring results are presented in Table 4. The September 6, 2019 methane monitoring results (collected prior to closing the gas vents on September 6, 2019) are presented on Figure 2. The September 9, 2019 methane monitoring results (collected after the closure of the gas vents) are presented on Figure 3. The annual groundwater monitoring analytical data are presented in Table 5. The annual gas probe monitoring analytical data are presented in Tables 6 and 7.
- The City of Dearborn completed the quarterly Site inspection on September 24, 2019. The inspection forms and photographs are presented in Attachment A. The inspection identified existing damage to the portion of the fence located at the northern property boundary. The inspection forms identified that there was no breach associated with the damage.
- GHD collected additional methane readings on September 26, 2019 at GP3-12, GP4-12, MW2-08, and EX-12 to evaluate the September 9, 2019 10.1 percent (%) methane detection at MW2-08. The September 26, 2019 methane readings are presented in Table 4. The methane level was 0.0 % at MW2-08 on September 26, 2019.
- GHD requested a conference call with the U.S. EPA via email on September 27, 2019 to discuss the U.S. EPA comments regarding the Site methane results. Tetra Tech coordinated the conference call for October 15, 2019.

C. Site Sample Analytical Data

- Air Monitoring:
 - Methane monitoring



- Waste Compatibility Analyses:
 - None
- Waste Characterization Analyses:
 - None
- Soil and Groundwater Investigation:
 - Monitoring well and gas probe annual chemical sampling for 2019
- ACM Abatement:
 - None

D. Document Submittals/Work Plan Modification

- Submittals:
 - Quarterly Progress Report #25 to the U.S. EPA, Tetra Tech, and City of Dearborn on July 15, 2019
 - Sentry well data to FPT on August 15, 2019
 - The Excel file for Table 4 of Quarterly Progress Report #25 was submitted to Tetra Tech on August 22, 2019
- Revision Requests:
 - None
- Work Plan Revisions:
 - None

E. Issues Identified

- New Issues and Planned Resolution:
 - The U.S. EPA provided comments regarding the Site methane results on August 28 and 29, 2019. GHD requested a conference call with the U.S. EPA via email on September 27, 2019 to discuss the U.S. EPA comments. Tetra Tech coordinated the conference call for October 15, 2019.
- Previously Identified Issues Pending Resolution:
 - In a letter dated December 7, 2018, the current Site owner (City of Dearborn) provided notice of its intention to sell the Site to The Soave Real Estate Group, Inc., which upon acquiring the Site plans to build a manufacturing facility subject to the recorded Restrictive Covenant and the remaining Administrative Settlement Agreement and Order on Consent (AOC) Site work



requirements. No subsequent communications from the City of Dearborn regarding the sale of the Site have been received.

- Consistent with the April, May, and June 2019 Quarterly Progress Report #25, the monitoring well MW6-10 riser was repaired, gas probe GP-6 and sentry well MW11-12 were located using GPS, and location markers were installed adjacent to MW11-12 and additional sentry wells that had missing/damaged markers on August 21 and 22, 2019.
- Methane vapor

Methane readings were collected on September 6 and 9, 2019 as part of the July, August, and September 2019 quarterly monitoring event. Additional methane readings were also collected from GP3-12, GP4-12, MW2-08, and EX-12 on September 26, 2019. The September 6, 2019 methane monitoring results are presented on Figure 2. The September 9, 2019 methane monitoring results are presented on Figure 3. All methane results are presented in Table 4.

The Site has Passive Ventilation Barriers (PVBs) constructed at the northern and southern Site boundaries, as presented on Figure 2. The PVBs passively vent methane on Site prior to the property boundaries. Methane is generally not detected or measured at very low detections at the eastern and western Site boundaries during the methane monitoring events due to the Site's geology (e.g., clay present near the ground surface in either direction).

The highest September 6, 2019 methane reading detected at the western-most Site boundary was 1.40 % at GP7-12 with the next highest methane reading being 0.1 %. The highest September 9, 2019 methane reading detected at the western-most Site boundary was 0.1 % and methane was not detected at GP7-12.

The highest September 6, 2019 methane reading detected at the eastern-most Site boundary was 0.1 %. Methane was not detected at the eastern-most Site boundary gas probes on September 9, 2019 but was detected further towards the interior of the Site at MW2-08 (at 10.1 % methane). Additional methane readings were collected on September 26, 2019 to evaluate the anomalous September 9, 2019 methane reading at MW2-08. The September 26, 2019 methane readings collected from the eastern property boundary gas probes (GP3-12 and GP4-12) and MW2-08 were all 0.0 % methane and 0.5 % methane was detected at EX-12 (located to the west of MW2-08).

The northern PVB has been successful at controlling the methane at the northern Site boundary. The highest September 6, 2019 methane reading at the northern-most monitoring locations was 0.1 %. Methane was not detected at the northern-most monitoring locations on September 9, 2019.

The southern PVB is controlling methane migrating from the central portions of the Site. Methane is intermittently detected in the sentry wells during the methane monitoring events. The maximum methane result detected in the sentry wells on September 6, 2019 was 7.5 % methane at MW14-12 with the next highest methane reading being 0.3 %. Methane was not detected at



the sentry wells on September 9, 2019. Previous methane detections at MW14-12 have ranged from not detected to 11.20 % methane.

The September 9, 2019 methane results (closed vents) were generally higher than the September 6, 2019 methane results (open vents), as expected. The September 6 and 9, 2019 (third quarter of 2019) methane detections appear to be generally consistent with prior methane data fluctuations.

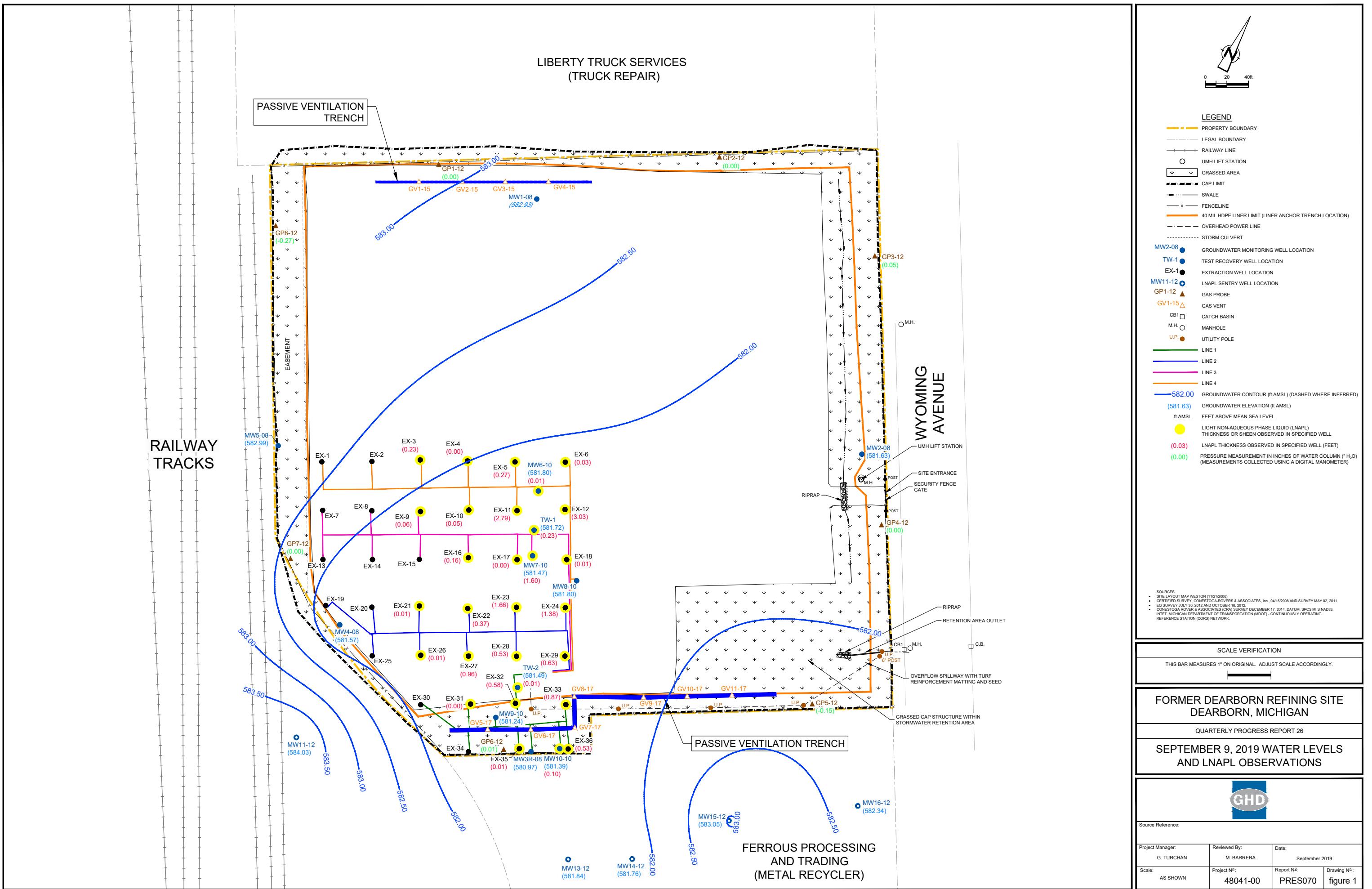
Fluctuation in methane levels are expected. Methane levels increase and decrease dependent on rainfall (e.g., water table levels), temperature, atmospheric pressure, and available substrate. The third quarter generally has a lower water table, as it is during the summer season (less precipitation). Therefore, there is less perched water present to restrict methane transport to the Site gas vents. The Site has a cover system that includes a flexible membrane layer. This generates an anaerobic zone below the cover system. The kinetics of biodegradation (methane generation) can be significantly higher in summer months due to the higher ambient temperatures. The anticipated outcome of the lower water table and higher ambient temperatures is higher measured methane readings in the summer. In addition, the former clay mine (i.e. FPT Site, Dearborn Refining, and Truck Yard) has been backfilled with variable fill (including demolition debris, potentially refuse, and impacted by waste oil) creating a substrate that can be biodegraded to methane that must be properly managed consistent with the approved OMM Plan and Standard of Care Plan.

The methane results will be further discussed during the conference call with the U.S. EPA and Tetra Tech on October 15, 2019.

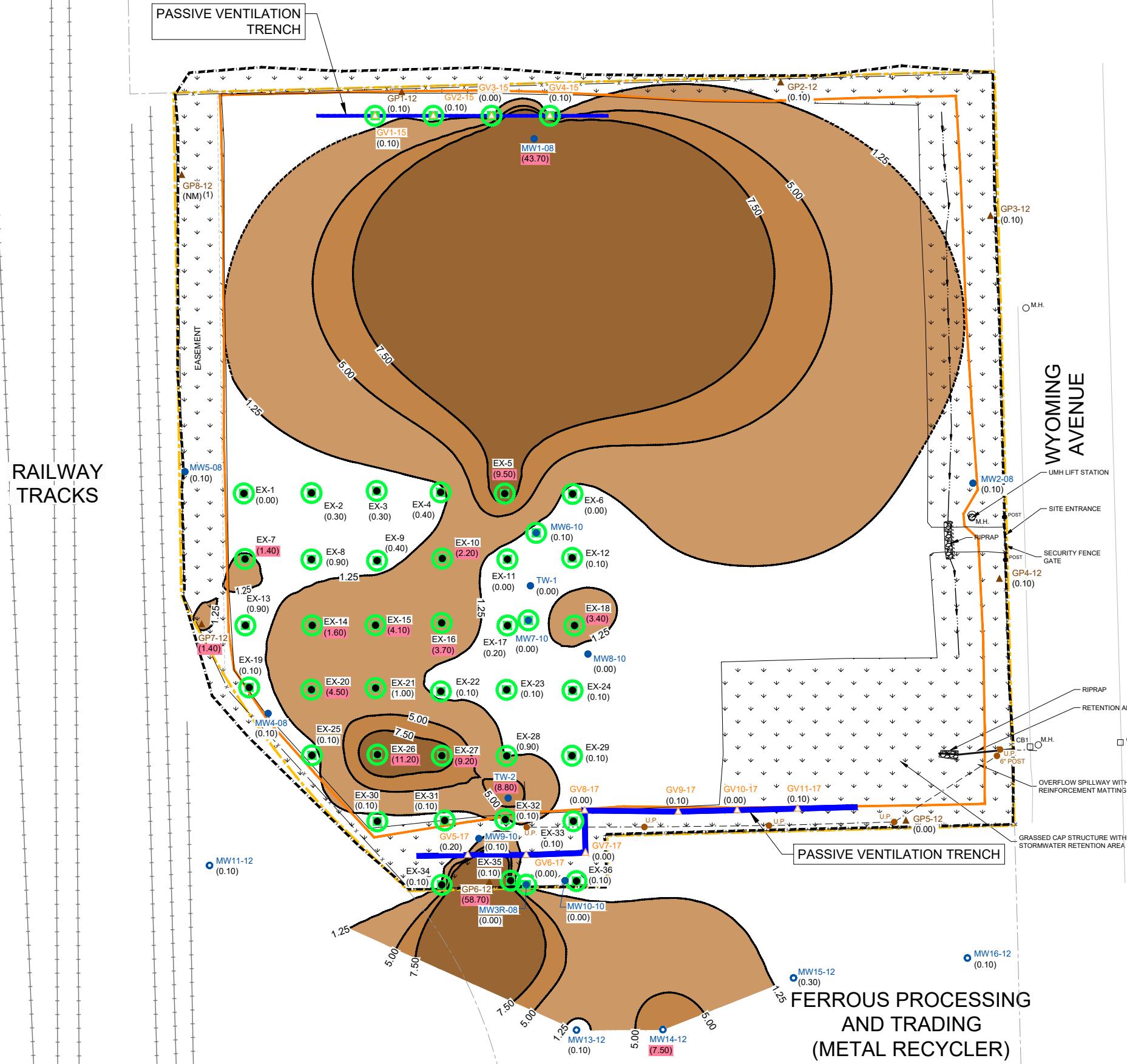
Methane will continue to be monitored quarterly and the results will be reported to the U.S. EPA in the Quarterly Progress Reports.

F. Current/Projected Work – October/November/December 2019

- Submit Quarterly Progress Report #26 for July, August, and September 2019.
- Submit an electronic copy of the September 21, 2007 Removal Action Work Plan to Tetra Tech on October 8, 2019, as requested by Tetra Tech
- GHD will participate in a conference call with the U.S. EPA and Tetra Tech on October 15, 2019 to discuss methane venting and monitoring.
- OMM activities, including:
 - Quarterly monitoring of water and LNAPL levels
 - Quarterly methane and gas probe pressure monitoring
- Scheduling:
 - Schedules to adhere to the April 17, 2013 Project Schedule (Revision 11) as approved by the U.S. EPA on May 22, 2013



LIBERTY TRUCK SERVICES (TRUCK REPAIR)



**LIBERTY TRUCK SERVICES
(TRUCK REPAIR)**

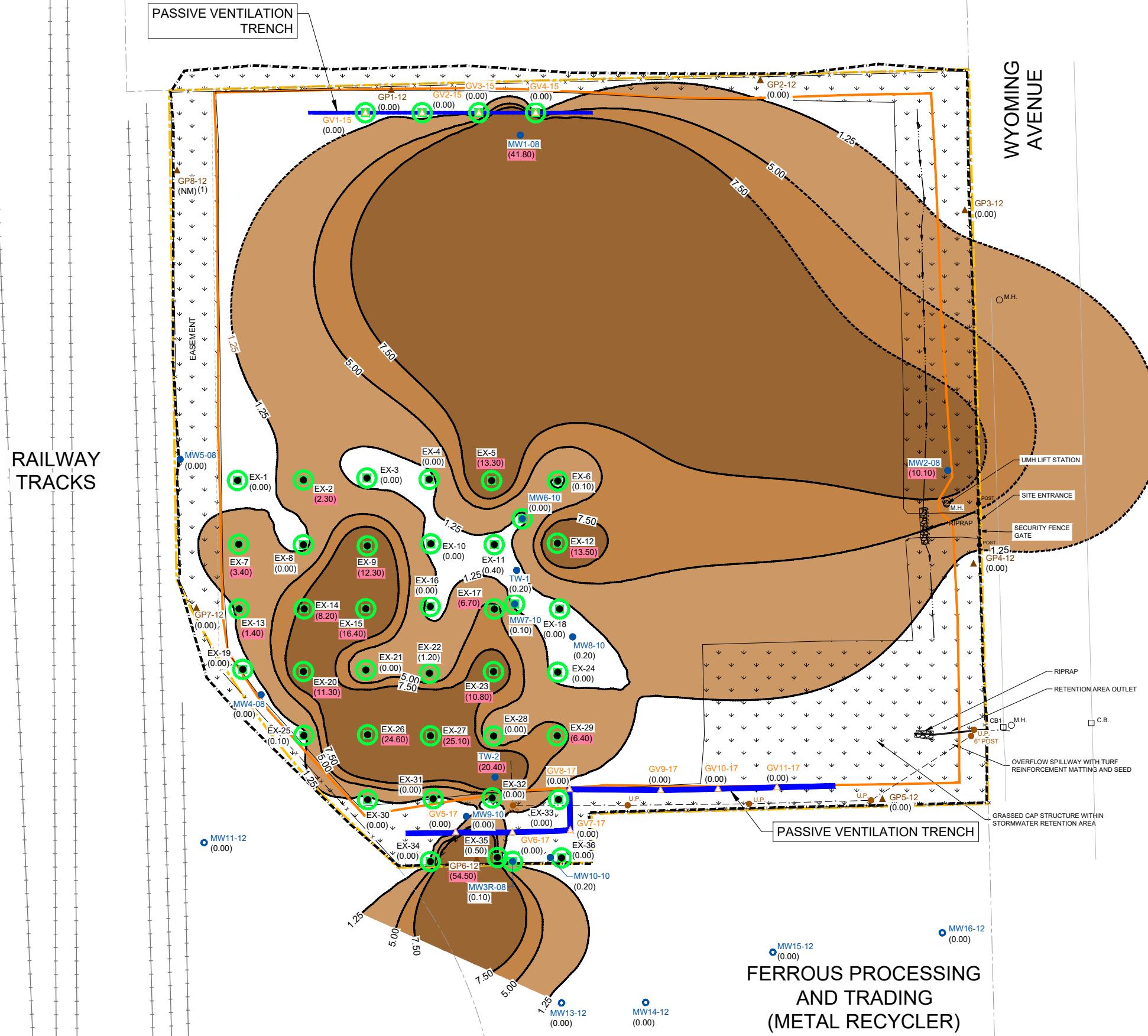


Table 1

Hydraulic Measurements
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW1-08	4/24/2013	592.55	--	8.60	--	--	583.95	583.95
MW1-08	5/23/2013	592.55	--	8.62	--	--	583.93	583.93
MW1-08	6/20/2013	592.55	--	8.46	--	--	584.09	584.09
MW1-08	7/25/2013	592.55	--	7.80	--	--	584.75	584.75
MW1-08	8/29/2013	592.55	--	8.77	--	--	583.78	583.78
MW1-08	9/27/2013	592.55	--	9.76	--	--	582.79	582.79
MW1-08	10/22/2013	592.55	--	9.97	--	--	582.58	582.58
MW1-08	11/21/2013	592.55	--	10.61	--	--	581.94	581.94
MW1-08	12/11/2013	592.55	--	10.73	--	--	581.82	581.82
MW1-08	1/15/2014	592.55	--	10.47	--	--	582.08	582.08
MW1-08	2/26/2014	592.55	--	10.56	--	--	581.99	581.99
MW1-08	3/25/2014	592.55	--	9.89	--	--	582.66	582.66
MW1-08	5/5/2014	592.55	--	9.27	--	--	583.28	583.28
MW1-08	9/19/2014	592.55	--	7.98	--	--	584.57	584.57
MW1-08	12/11/2014	591.41	--	8.90	--	--	582.51	582.51
MW1-08	3/9/2015	591.41	--	9.86	--	--	581.55	581.55
MW1-08	6/1/2015	591.41	--	8.75	--	--	582.66	582.66
MW1-08	8/5/2015	591.41	--	8.56	--	--	582.85	582.85
MW1-08	1/8/2016	591.41	--	9.09	--	--	582.32	582.32
MW1-08	3/18/2016	591.41	--	8.31	--	--	583.10	583.10
MW1-08	5/26/2016	591.41	--	7.93	--	--	583.48	583.48
MW1-08	8/12/2016	591.41	--	9.32	--	--	582.09	582.09
MW1-08	12/9/2016	591.41	--	8.19	--	--	583.22	583.22
MW1-08	2/27/2017	591.41	--	7.83	--	--	583.58	583.58
MW1-08	6/19/2017	591.41	--	7.32	--	--	584.09	584.09
MW1-08	9/13/2017	591.41	--	8.65	--	--	582.76	582.76
MW1-08	11/16/2017	591.41	--	9.19	--	--	582.22	582.22
MW1-08	3/22/2018	591.41	--	7.11	--	--	584.30	584.30
MW1-08	5/17/2018	591.41	--	5.95	--	--	585.46	585.46
MW1-08	9/19/2018	591.41	--	8.81	--	--	582.60	582.60
MW1-08	11/29/2018	591.41	--	6.88	--	--	584.53	584.53
MW1-08	3/21/2019	591.41	--	7.68	--	--	583.73	583.73
MW1-08	6/5/2019	591.41	--	6.24	--	--	585.17	585.17
MW1-08	9/9/2019	591.41	--	8.48	--	--	582.93	582.93
MW2-08	4/24/2013	591.76	--	7.09	--	--	584.67	584.67
MW2-08	5/23/2013	591.76	--	8.23	--	--	583.53	583.53
MW2-08	6/20/2013	591.76	--	8.18	--	--	583.58	583.58
MW2-08	7/25/2013	591.76	--	6.70	--	--	585.06	585.06
MW2-08	8/29/2013	591.76	--	8.04	--	--	583.72	583.72
MW2-08	9/27/2013	591.76	--	8.58	--	--	583.18	583.18
MW2-08	10/22/2013	591.76	--	8.91	--	--	582.85	582.85
MW2-08	11/21/2013	591.76	--	9.17	--	--	582.59	582.59
MW2-08	12/11/2013	591.76	--	9.10	--	--	582.66	582.66
MW2-08	1/15/2014	591.76	--	7.56	--	--	584.20	584.20
MW2-08	2/26/2014	591.76	--	7.85	--	--	583.91	583.91
MW2-08	3/25/2014	591.76	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	5/5/2014	591.76	(1)	(1)	(1)	(1)	(1)	(1)
MW2-08	9/19/2014	591.76	--	7.80	--	--	583.96	583.96
MW2-08	12/11/2014	590.64	--	8.06	--	--	582.58	582.58
MW2-08	3/9/2015	590.64	--	8.72	--	--	581.92	581.92
MW2-08	6/1/2015	590.64	--	7.52	--	--	583.12	583.12
MW2-08	8/5/2015	590.64	--	8.47	--	--	582.17	582.17
MW2-08	1/8/2016	590.64	--	7.47	--	--	583.17	583.17
MW2-08	3/18/2016	590.64	--	6.32	--	--	584.32	584.32
MW2-08	5/26/2016	590.64	--	8.13	--	--	582.51	582.51

Table 1

Hydraulic Measurements
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW2-08	8/12/2016	590.64	--	9.04	--	--	581.60	581.60
MW2-08	12/9/2016	590.64	--	7.21	--	--	583.43	583.43
MW2-08	2/27/2017	590.64	--	7.38	--	--	583.26	583.26
MW2-08	6/19/2017	590.64	--	8.27	--	--	582.37	582.37
MW2-08	9/13/2017	590.64	--	9.12	--	--	581.52	581.52
MW2-08	11/16/2017	590.64	--	9.27	--	--	581.37	581.37
MW2-08	3/22/2018	590.64	--	7.67	--	--	582.97	582.97
MW2-08	5/17/2018	590.64	--	6.34	--	--	584.30	584.30
MW2-08	9/19/2018	590.64	--	9.05	--	--	581.59	581.59
MW2-08	11/29/2018	590.64	--	1.32	--	--	589.32	589.32
MW2-08	3/21/2019	590.64	--	7.25	--	--	583.39	583.39
MW2-08	6/5/2019	590.64	--	7.71	--	--	582.93	582.93
MW2-08	9/9/2019	590.64	--	9.01	--	--	581.63	581.63
MW3R-08	4/24/2013	589.11	4.90	4.90	trace	584.21	584.21	584.21
MW3R-08	5/23/2013	589.11	6.51	6.51	trace	582.60	582.60	582.60
MW3R-08	6/20/2013	589.11	--	5.60	--	--	583.51	583.51
MW3R-08	7/25/2013	589.11	--	4.71	trace	--	584.40	584.40
MW3R-08	8/29/2013	589.11	--	7.34	trace	--	581.77	581.77
MW3R-08	9/27/2013	589.11	--	7.83	--	--	581.28	581.28
MW3R-08	10/22/2013	589.11	--	8.50	trace	--	580.61	580.61
MW3R-08	11/21/2013	589.11	--	8.67	trace	--	580.44	580.44
MW3R-08	12/11/2013	589.11	--	8.44	trace	--	580.67	580.67
MW3R-08	1/15/2014	589.11	--	6.78	--	--	582.33	582.33
MW3R-08	2/26/2014	589.11	--	7.15	--	--	581.96	581.96
MW3R-08	3/25/2014	589.11	--	6.19	--	--	582.92	582.92
MW3R-08	5/5/2014	589.11	--	6.13	--	--	582.98	582.98
MW3R-08	9/19/2014	589.11	--	5.39	--	--	583.72	583.72
MW3R-08	12/11/2014	587.87	--	6.08	trace	--	581.79	581.79
MW3R-08	3/9/2015	587.87	--	6.37	--	--	581.50	581.50
MW3R-08	6/1/2015	587.87	--	5.10	--	--	582.77	582.77
MW3R-08	8/5/2015	587.87	--	6.15	--	--	581.72	581.72
MW3R-08	1/8/2016	587.87	--	5.65	--	--	582.22	582.22
MW3R-08	3/18/2016	587.87	--	5.22	--	--	582.65	582.65
MW3R-08	5/26/2016	587.87	--	5.87	--	--	582.00	582.00
MW3R-08	8/12/2016	587.87	--	7.19	--	--	580.68	580.68
MW3R-08	12/9/2016	587.87	--	5.61	--	--	582.26	582.26
MW3R-08	2/27/2017	587.87	--	5.20	--	--	582.67	582.67
MW3R-08	6/19/2017	587.87	--	5.90	--	--	581.97	581.97
MW3R-08	9/13/2017	587.87	--	6.60	--	--	581.27	581.27
MW3R-08	11/16/2017	587.87	--	6.50	--	--	581.37	581.37
MW3R-08	3/22/2018	587.87	--	5.51	--	--	582.36	582.36
MW3R-08	5/17/2018	587.87	--	3.14	--	--	584.73	584.73
MW3R-08	9/19/2018	587.87	--	7.24	--	--	580.63	580.63
MW3R-08	11/29/2018	587.87	--	4.44	--	--	583.43	583.43
MW3R-08	3/21/2019	587.87	--	5.46	--	--	582.41	582.41
MW3R-08	6/5/2019	587.87	--	4.38	--	--	583.49	583.49
MW3R-08	9/9/2019	587.87	--	6.90	--	--	580.97	580.97
MW4-08	4/24/2013	591.76	--	8.78	--	--	582.98	582.98
MW4-08	5/23/2013	591.76	--	8.71	--	--	583.05	583.05
MW4-08	6/20/2013	591.76	--	8.15	--	--	583.61	583.61
MW4-08	7/25/2013	591.76	--	7.47	trace	--	584.29	584.29
MW4-08	8/29/2013	591.76	--	9.97	--	--	581.79	581.79
MW4-08	9/27/2013	591.76	--	10.21	--	--	581.55	581.55
MW4-08	10/22/2013	591.76	--	10.35	--	--	581.41	581.41
MW4-08	11/21/2013	591.76	--	11.42	--	--	580.34	580.34

Table 1

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Dearborn, Michigan

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MW4-08	12/11/2013	591.76	--	11.00	--	--	580.76	580.76
MW4-08	1/15/2014	591.76	--	10.12	--	--	581.64	581.64
MW4-08	2/26/2014	591.76	--	9.94	--	--	581.82	581.82
MW4-08	3/25/2014	591.76	--	8.84	--	--	582.92	582.92
MW4-08	5/5/2014	591.76	--	8.80	--	--	582.96	582.96
MW4-08	9/19/2014	591.76	--	7.72	--	--	584.04	584.04
MW4-08	12/11/2014	590.35	--	8.81	--	--	581.54	581.54
MW4-08	3/9/2015	590.35	--	9.72	--	--	580.63	580.63
MW4-08	6/1/2015	590.35	--	8.41	--	--	581.94	581.94
MW4-08	8/5/2015	590.35	--	8.82	--	--	581.53	581.53
MW4-08	1/8/2016	590.35	--	8.75	--	--	581.60	581.60
MW4-08	3/18/2016	590.35	--	7.74	--	--	582.61	582.61
MW4-08	5/26/2016	590.35	--	8.05	--	--	582.30	582.30
MW4-08	8/12/2016	590.35	--	9.51	--	--	580.84	580.84
MW4-08	12/9/2016	590.35	--	8.29	--	--	582.06	582.06
MW4-08	2/27/2017	590.35	--	7.87	--	--	582.48	582.48
MW4-08	6/19/2017	590.35	--	7.75	--	--	582.60	582.60
MW4-08	9/13/2017	590.35	--	8.87	--	--	581.48	581.48
MW4-08	11/16/2017	590.35	--	9.00	--	--	581.35	581.35
MW4-08	3/22/2018	590.35	--	7.28	--	--	583.07	583.07
MW4-08	5/17/2018	590.35	--	5.36	--	--	584.99	584.99
MW4-08	9/19/2018	590.35	--	6.13	--	--	584.22	584.22
MW4-08	11/29/2018	590.35	(3)	(3)	(3)	(3)	(3)	(3)
MW4-08	3/21/2019	590.35	--	7.44	--	--	582.91	582.91
MW4-08	6/5/2019	590.35	--	6.17	--	--	584.18	584.18
MW4-08	9/9/2019	590.35	--	8.78	--	--	581.57	581.57
MW5-08	4/24/2013	588.26	--	1.07	--	--	587.19	587.19
MW5-08	5/23/2013	588.26	--	3.51	--	--	584.75	584.75
MW5-08	6/20/2013	588.26	--	3.05	--	--	585.21	585.21
MW5-08	7/25/2013	588.26	--	0.15	--	--	588.11	588.11
MW5-08	8/29/2013	588.26	--	3.75	--	--	584.51	584.51
MW5-08	9/27/2013	588.26	--	4.04	--	--	584.22	584.22
MW5-08	10/22/2013	588.26	--	4.54	--	--	583.72	583.72
MW5-08	11/21/2013	588.26	--	3.61	--	--	584.65	584.65
MW5-08	12/11/2013	588.26	--	4.36	--	--	583.90	583.90
MW5-08	1/15/2014	588.26	--	0.73	--	--	587.53	587.53
MW5-08	2/26/2014	588.26	--	3.00	--	--	585.26	585.26
MW5-08	3/25/2014	588.26	--	2.50	--	--	585.76	585.76
MW5-08	5/5/2014	588.26	--	3.17	--	--	585.09	585.09
MW5-08	9/19/2014	588.26	--	2.71	--	--	585.55	585.55
MW5-08	12/11/2014	587.11	--	3.71	--	--	583.40	583.40
MW5-08	3/9/2015	587.11	--	0.58	--	--	586.53	586.53
MW5-08	6/1/2015	587.11	--	0.70	--	--	586.41	586.41
MW5-08	8/5/2015	587.11	--	3.22	--	--	583.89	583.89
MW5-08	1/8/2016	587.11	--	3.45	--	--	583.66	583.66
MW5-08	3/18/2016	587.11	--	2.69	--	--	584.42	584.42
MW5-08	5/26/2016	587.11	--	2.98	--	--	584.13	584.13
MW5-08	8/12/2016	587.11	--	4.65	--	--	582.46	582.46
MW5-08	12/9/2016	587.11	--	3.21	--	--	583.90	583.90
MW5-08	2/27/2017	587.11	--	2.94	--	--	584.17	584.17
MW5-08	6/19/2017	587.11	--	3.04	--	--	584.07	584.07
MW5-08	9/13/2017	587.11	--	4.12	--	--	582.99	582.99
MW5-08	11/16/2017	587.11	--	3.54	--	--	583.57	583.57
MW5-08	3/22/2018	587.11	--	2.78	--	--	584.33	584.33
MW5-08	5/17/2018	587.11	(1)	(1)	(1)	(1)	(1)	(1)

Table 1

Hydraulic Measurements
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW5-08	9/19/2018	587.11	--	4.40	--	--	582.71	582.71
MW5-08	11/29/2018	587.11	--	1.98	--	--	585.13	585.13
MW5-08	3/21/2019	587.11	--	2.40	--	--	584.71	584.71
MW5-08	6/5/2019	587.11	--	1.67	--	--	585.44	585.44
MW5-08	9/9/2019	587.11	--	4.12	--	--	582.99	582.99
MW6-10	4/24/2013	592.71	8.42	11.64	3.22	584.29	581.07	583.97
MW6-10	5/23/2013	592.71	9.18	12.55	3.37	583.53	580.16	583.19
MW6-10	6/20/2013	592.71	8.63	12.27	3.64	584.08	580.44	583.71
MW6-10	7/25/2013	592.71	--	10.09	trace	--	582.62	582.62
MW6-10	8/29/2013	592.71	--	11.92	trace	--	580.79	580.79
MW6-10	9/27/2013	592.71	10.85	12.57	1.72	581.86	580.14	581.69
MW6-10	10/22/2013	592.71	10.89	12.76	1.87	581.82	579.95	581.63
MW6-10	11/21/2013	592.71	12.32	12.72	0.40	580.39	579.99	580.35
MW6-10	12/11/2013	592.71	12.14	12.15	0.01	580.57	580.56	580.57
MW6-10	1/15/2014	592.71	--	12.54	trace	--	580.17	580.17
MW6-10	2/26/2014	592.71	10.88	10.95	0.07	581.83	581.76	581.82
MW6-10	3/25/2014	592.71	(2)	(2)	0.33 (2)	(2)	(2)	(2)
MW6-10	5/5/2014	592.71	(2)	(2)	2.13 (2)	(2)	(2)	(2)
MW6-10	9/19/2014	592.71	(2)	(2)	3.65 (2)	(2)	(2)	(2)
MW6-10	12/11/2014	591.56	9.54	12.27	2.73	582.02	579.29	581.75
MW6-10	3/9/2015	591.56	10.60	12.61	2.01	580.96	578.95	580.76
MW6-10	6/1/2015	591.56	9.28	12.00	2.72	582.28	579.56	582.01
MW6-10	8/5/2015	591.56	9.29	12.40	3.11	582.27	579.16	581.96
MW6-10	1/8/2016	591.56	9.55	12.12	2.57	582.01	579.44	581.75
MW6-10	3/18/2016	591.56	8.60	11.87	3.27	582.96	579.69	582.63
MW6-10	5/26/2016	591.56	8.68	12.68	4.00	582.88	578.88	582.48
MW6-10	8/12/2016	591.56	10.24	13.00	2.76	581.32	578.56	581.04
MW6-10	12/9/2016	591.56	8.59	10.05	1.46	582.97	581.51	582.82
MW6-10	2/27/2017	591.56	8.56	12.01	3.45	583.00	579.55	582.65
MW6-10	6/19/2017	591.56	8.48	13.61	5.13	583.08	577.95	582.57
MW6-10	9/13/2017	591.56	9.75	12.15	2.40	581.81	579.41	581.57
MW6-10	11/16/2017	591.56	(1)	(1)	(1)	(1)	(1)	(1)
MW6-10	3/22/2018	591.56	(1)	(1)	(1)	(1)	(1)	(1)
MW6-10	5/17/2018	591.56	--	6.43	--	--	585.13	585.13
MW6-10	9/19/2018	591.56	10.04	11.63	1.59	581.52	579.93	581.36
MW6-10	11/29/2018	591.56	7.62	8.66	1.04	583.94	582.90	583.83
MW6-10⁽⁹⁾	3/21/2019	591.56	--	4.20	--	--	--	--
MW6-10	6/5/2019	591.56	(1)	(1)	(1)	(1)	(1)	(1)
MW6-10	9/9/2019	591.56	9.76	9.77	0.01	581.80	581.79	581.80
MW7-10	4/24/2013	592.21	8.25	10.42	2.17	583.96	581.79	583.75
MW7-10	5/23/2013	592.21	9.05	10.61	1.56	583.16	581.60	583.01
MW7-10	6/20/2013	592.21	8.39	10.55	2.16	583.82	581.66	583.61
MW7-10	7/25/2013	592.21	--	10.30	trace	--	581.91	581.91
MW7-10	8/29/2013	592.21	--	11.44	trace	--	580.77	580.77
MW7-10	9/27/2013	592.21	10.61	11.02	0.41	581.60	581.19	581.56
MW7-10	10/22/2013	592.21	10.77	11.15	0.38	581.44	581.06	581.41
MW7-10	11/21/2013	592.21	--	11.92	trace	--	580.29	580.29
MW7-10	12/11/2013	592.21	--	11.57	trace	--	580.64	580.64
MW7-10	1/15/2014	592.21	11.22	11.37	0.15	580.99	580.84	580.98
MW7-10	2/26/2014	592.21	10.38	10.41	0.03	581.83	581.80	581.83
MW7-10	3/25/2014	592.21	9.36	9.78	0.42	582.85	582.43	582.81
MW7-10	5/5/2014	592.21	9.14	10.14	1.00	583.07	582.07	582.97
MW7-10	9/19/2014	592.21	7.77	10.98	3.21	584.44	581.23	584.12
MW7-10	12/11/2014	591.01	9.00	10.98	1.98	582.01	580.03	581.81
MW7-10	3/9/2015	591.01	10.08	11.43	1.35	580.93	579.58	580.80

Table 1

Hydraulic Measurements
Quarterly Progress Report #26 (July, August and September 2019)
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Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW7-10	6/1/2015	591.01	8.78	10.40	1.62	582.23	580.61	582.07
MW7-10	8/5/2015	591.01	8.83	10.86	2.03	582.18	580.15	581.98
MW7-10	1/8/2016	591.01	9.06	10.41	1.35	581.95	580.60	581.82
MW7-10	3/18/2016	591.01	8.13	10.07	1.94	582.88	580.94	582.69
MW7-10	5/26/2016	591.01	8.21	11.35	3.14	582.80	579.66	582.49
MW7-10	8/12/2016	591.01	9.82	11.06	1.24	581.19	579.95	581.07
MW7-10	12/9/2016	591.01	9.02	12.07	3.05	581.99	578.94	581.69
MW7-10	2/27/2017	591.01	8.10	10.62	2.52	582.91	580.39	582.66
MW7-10	6/19/2017	591.01	8.22	11.35	3.13	582.79	579.66	582.48
MW7-10	9/13/2017	591.01	9.39	11.61	2.22	581.62	579.40	581.40
MW7-10	11/16/2017	591.01	9.65	12.71	3.06	581.36	578.30	581.05
MW7-10	3/22/2018	591.01	8.02	10.32	2.30	582.99	580.69	582.76
MW7-10	5/17/2018	591.01	5.76	10.03	4.27	585.25	580.98	584.82
MW7-10	9/19/2018	591.01	9.75	11.13	1.38	581.26	579.88	581.12
MW7-10	11/29/2018	591.01	7.15	10.36	3.21	583.86	580.65	583.54
MW7-10	3/21/2019	591.01	7.54	12.98	5.44	583.47	578.03	582.93
MW7-10	6/5/2019	591.01	6.38	11.50	5.12	584.63	579.51	584.12
MW7-10	9/9/2019	591.01	9.38	10.98	1.60	581.63	580.03	581.47
MW8-10	4/24/2013	592.24	--	8.68	--	--	583.56	583.56
MW8-10	5/23/2013	592.24	--	9.39	--	--	582.85	582.85
MW8-10	6/20/2013	592.24	--	8.74	--	--	583.50	583.50
MW8-10	7/25/2013	592.24	--	9.08	--	--	583.16	583.16
MW8-10	8/29/2013	592.24	--	11.13	--	--	581.11	581.11
MW8-10	9/27/2013	592.24	--	10.82	--	--	581.42	581.42
MW8-10	10/22/2013	592.24	--	11.00	--	--	581.24	581.24
MW8-10	11/21/2013	592.24	--	12.04	--	--	580.20	580.20
MW8-10	12/11/2013	592.24	--	11.67	--	--	580.57	580.57
MW8-10	1/15/2014	592.24	--	11.35	--	--	580.89	580.89
MW8-10	2/26/2014	592.24	--	10.54	--	--	581.70	581.70
MW8-10	3/25/2014	592.24	--	9.51	--	--	582.73	582.73
MW8-10	5/5/2014	592.24	--	9.33	--	--	582.91	582.91
MW8-10	9/19/2014	592.24	--	8.20	--	--	584.04	584.04
MW8-10	12/11/2014	591.18	--	9.27	--	--	581.91	581.91
MW8-10	3/9/2015	591.18	--	10.33	--	--	580.85	580.85
MW8-10	6/1/2015	591.18	--	9.10	--	--	582.08	582.08
MW8-10	8/5/2015	591.18	--	9.10	--	--	582.08	582.08
MW8-10	1/8/2016	591.18	--	9.01	--	--	582.17	582.17
MW8-10	3/18/2016	591.18	--	8.28	--	--	582.90	582.90
MW8-10	5/26/2016	591.18	--	8.54	--	--	582.64	582.64
MW8-10	8/12/2016	591.18	--	9.99	--	--	581.19	581.19
MW8-10	12/9/2016	591.18	--	8.90	--	--	582.28	582.28
MW8-10	2/27/2017	591.18	--	8.42	--	--	582.76	582.76
MW8-10	6/19/2017	591.18	--	8.33	--	--	582.85	582.85
MW8-10	9/13/2017	591.18	--	9.34	--	--	581.84	581.84
MW8-10	11/16/2017	591.18	--	9.56	--	--	581.62	581.62
MW8-10	3/22/2018	591.18	--	8.06	--	--	583.12	583.12
MW8-10	5/17/2018	591.18	--	6.00	--	--	585.18	585.18
MW8-10	9/19/2018	591.18	--	9.73	--	--	581.45	581.45
MW8-10	11/29/2018	591.18	--	7.35	--	--	583.83	583.83
MW8-10	3/21/2019	591.18	--	7.76	--	--	583.42	583.42
MW8-10	6/5/2019	591.18	--	6.67	--	--	584.51	584.51
MW8-10	9/9/2019	591.18	--	9.38	--	--	581.80	581.80
MW9-10	4/24/2013	591.79	--	8.08	--	--	583.71	583.71
MW9-10	5/23/2013	591.79	--	9.20	--	--	582.59	582.59
MW9-10	6/20/2013	591.79	--	8.47	--	--	583.32	583.32

Table 1

Hydraulic Measurements
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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW9-10	7/25/2013	591.79	--	7.78	--	--	584.01	584.01
MW9-10	8/29/2013	591.79	--	10.09	--	--	581.70	581.70
MW9-10	9/27/2013	591.79	--	10.52	--	--	581.27	581.27
MW9-10	10/22/2013	591.79	--	11.26	--	--	580.53	580.53
MW9-10	11/21/2013	591.79	--	11.35	--	--	580.44	580.44
MW9-10	12/11/2013	591.79	--	11.12	--	--	580.67	580.67
MW9-10	1/15/2014	591.79	--	9.92	--	--	581.87	581.87
MW9-10	2/26/2014	591.79	--	10.08	--	--	581.71	581.71
MW9-10	3/25/2014	591.79	--	9.15	--	--	582.64	582.64
MW9-10	5/5/2014	591.79	--	9.07	--	--	582.72	582.72
MW9-10	9/19/2014	591.79	--	8.09	--	--	583.70	583.70
MW9-10	12/11/2014	590.43	--	9.12	--	--	581.31	581.31
MW9-10	3/9/2015	590.43	--	9.94	--	--	580.49	580.49
MW9-10	6/1/2015	590.43	--	8.39	--	--	582.04	582.04
MW9-10	8/5/2015	590.43	--	8.87	--	--	581.56	581.56
MW9-10	1/8/2016	590.43	--	9.05	--	--	581.38	581.38
MW9-10	3/18/2016	590.43	--	8.11	--	--	582.32	582.32
MW9-10	5/26/2016	590.43	--	8.48	--	--	581.95	581.95
MW9-10	8/12/2016	590.43	--	9.81	--	--	580.62	580.62
MW9-10	12/9/2016	590.43	--	8.71	--	--	581.72	581.72
MW9-10	2/27/2017	590.43	--	8.24	--	--	582.19	582.19
MW9-10	6/19/2017	590.43	--	8.21	--	--	582.22	582.22
MW9-10	9/13/2017	590.43	--	9.22	--	--	581.21	581.21
MW9-10	11/16/2017	590.43	--	9.33	--	--	581.10	581.10
MW9-10	3/22/2018	590.43	--	7.81	--	--	582.62	582.62
MW9-10	5/17/2018	590.43	--	5.77	--	--	584.66	584.66
MW9-10	9/19/2018	590.43	--	9.47	--	--	580.96	580.96
MW9-10	11/29/2018	590.43	--	7.09	--	--	583.34	583.34
MW9-10	3/21/2019	590.43	--	7.75	--	--	582.68	582.68
MW9-10	6/5/2019	590.43	--	6.65	--	--	583.78	583.78
MW9-10	9/9/2019	590.43	--	9.19	--	--	581.24	581.24
MW10-10	4/24/2013	589.66	5.99	6.06	0.07	583.67	583.60	583.66
MW10-10	5/23/2013	589.66	7.10	8.04	0.94	582.56	581.62	582.47
MW10-10	6/20/2013	589.66	6.31	6.72	0.41	583.35	582.94	583.31
MW10-10	7/25/2013	589.66	5.62	6.24	0.62	584.04	583.42	583.98
MW10-10	8/29/2013	589.66	7.84	8.88	1.04	581.82	580.78	581.72
MW10-10	9/27/2013	589.66	8.42	8.47	0.05	581.24	581.19	581.23
MW10-10	10/22/2013	589.66	--	9.89	trace	--	579.77	579.77
MW10-10	11/21/2013	589.66	9.07	9.64	0.57	580.59	580.02	580.53
MW10-10	12/11/2013	589.66	8.98	9.45	0.47	580.68	580.21	580.63
MW10-10	1/15/2014	589.66	7.76	8.11	0.35	581.90	581.55	581.86
MW10-10	2/26/2014	589.66	(3)	(3)	(3)	(3)	(3)	(3)
MW10-10	3/25/2014	589.66	--	7.07	--	--	582.59	582.59
MW10-10	5/5/2014	589.66	--	7.01	--	--	582.65	582.65
MW10-10	9/19/2014	589.66	5.95	6.04	0.09	583.71	583.62	583.70
MW10-10	12/11/2014	588.52	7.03	7.15	0.12	581.49	581.37	581.48
MW10-10	3/9/2015	588.52	7.95	8.50	0.55	580.57	580.02	580.52
MW10-10	6/1/2015	588.52	6.03	6.12	0.09	582.49	582.40	582.48
MW10-10	8/5/2015	588.52	6.85	7.32	0.47	581.67	581.20	581.63
MW10-10	1/8/2016	588.52	6.98	6.98	0.00	581.54	581.54	581.54
MW10-10	3/18/2016	588.52	--	5.25	--	--	583.27	583.27
MW10-10	5/26/2016	588.52	6.39	6.49	0.10	582.13	582.03	582.12
MW10-10	8/12/2016	588.52	7.58	8.41	0.83	580.94	580.11	580.86
MW10-10	12/9/2016	588.52	6.63	6.91	0.28	581.89	581.61	581.86
MW10-10	2/27/2017	588.52	6.15	6.28	0.13	582.37	582.24	582.36

Table 1

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Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW10-10	6/19/2017	588.52	6.10	6.79	0.69	582.42	581.73	582.35
MW10-10	9/13/2017	588.52	7.02	7.49	0.47	581.50	581.03	581.46
MW10-10	11/16/2017	588.52	7.00	7.46	0.46	581.52	581.06	581.48
MW10-10	3/22/2018	588.52	5.75	5.88	0.13	582.77	582.64	582.76
MW10-10	5/17/2018	588.52	2.60	2.61	0.01	585.92	585.91	585.92
MW10-10	9/19/2018	588.52	7.31	8.12	0.81	581.21	580.40	581.13
MW10-10	11/29/2018	588.52	--	3.55	--	--	584.97	584.97
MW10-10	3/21/2019	588.52	--	4.60	--	--	583.92	583.92
MW10-10	6/5/2019	588.52	--	4.60	--	--	583.92	583.92
MW10-10	9/9/2019	588.52	7.12	7.22	0.10	581.40	581.30	581.39
MW11-12	4/24/2013	588.15	--	1.65	--	--	586.50	586.50
MW11-12	5/23/2013	588.15	--	2.13	--	--	586.02	586.02
MW11-12	6/20/2013	588.15	--	2.08	--	--	586.07	586.07
MW11-12	7/25/2013	588.15	--	0.72	--	--	587.43	587.43
MW11-12	8/29/2013	588.15	--	2.82	--	--	585.33	585.33
MW11-12	9/27/2013	588.15	--	2.98	--	--	585.17	585.17
MW11-12	10/22/2013	588.15	--	3.31	--	--	584.84	584.84
MW11-12	11/21/2013	588.15	--	2.22	--	--	585.93	585.93
MW11-12	12/11/2013	588.15	--	3.02	--	--	585.13	585.13
MW11-12	1/15/2014	588.15	--	1.32	--	--	586.83	586.83
MW11-12	2/26/2014	588.15	(3)	(3)	(3)	(3)	(3)	(3)
MW11-12	3/25/2014	588.15	--	1.19	--	--	586.96	586.96
MW11-12	5/5/2014	588.15	--	2.23	--	--	585.92	585.92
MW11-12	9/19/2014	588.15	--	1.75	--	--	586.40	586.40
MW11-12	12/11/2014	587.19	--	2.69	--	--	584.50	584.50
MW11-12	3/9/2015	587.19	(4)	(4)	(4)	(4)	(4)	(4)
MW11-12	6/1/2015	587.19	--	1.00	--	--	586.19	586.19
MW11-12	8/5/2015	587.19	--	1.62	--	--	585.57	585.57
MW11-12	1/8/2016	587.19	--	2.12	--	--	585.07	585.07
MW11-12	3/18/2016	587.19	--	0.93	--	--	586.26	586.26
MW11-12	5/26/2016	587.19	--	1.02	--	--	586.17	586.17
MW11-12	8/12/2016	587.19	--	3.11	--	--	584.08	584.08
MW11-12	12/9/2016	587.19	--	2.12	--	--	585.07	585.07
MW11-12	2/27/2017	587.19	--	1.00	--	--	586.19	586.19
MW11-12	6/19/2017	587.19	--	1.58	--	--	585.61	585.61
MW11-12	9/13/2017	587.19	--	2.76	--	--	584.43	584.43
MW11-12	11/16/2017	587.19	--	2.15	--	--	585.04	585.04
MW11-12	3/22/2018	587.19	--	1.31	--	--	585.88	585.88
MW11-12	5/17/2018	587.19	(1)	(1)	(1)	(1)	(1)	(1)
MW11-12	9/19/2018	587.19	--	3.38	--	--	583.81	583.81
MW11-12	11/29/2018	587.19	--	0.50	--	--	586.69	586.69
MW11-12 ⁽⁸⁾	3/21/2019	587.19	--	1.00	--	--	586.19	586.19
MW11-12	6/5/2019	587.19	(10)	(10)	(10)	(10)	(10)	(10)
MW11-12	9/9/2019	587.19	--	3.16	--	--	584.03	584.03
MW13-12	4/24/2013	587.95	--	4.27	--	--	583.68	583.68
MW13-12	5/23/2013	587.95	--	5.21	--	--	582.74	582.74
MW13-12	6/20/2013	587.95	--	4.61	--	--	583.34	583.34
MW13-12	7/25/2013	587.95	--	3.82	--	--	584.13	584.13
MW13-12	8/29/2013	587.95	--	6.05	--	--	581.90	581.90
MW13-12	9/27/2013	587.95	--	6.66	--	--	581.29	581.29
MW13-12	10/22/2013	587.95	--	7.25	--	--	580.70	580.70
MW13-12	11/21/2013	587.95	--	7.31	--	--	580.64	580.64
MW13-12	12/11/2013	587.95	--	7.21	--	--	580.74	580.74
MW13-12	1/15/2014	587.95	--	5.91	--	--	582.04	582.04
MW13-12	2/26/2014	587.95	(3)	(3)	(3)	(3)	(3)	(3)

Table 1

Hydraulic Measurements
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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW13-12	3/25/2014	587.95	--	5.33	--	--	582.62	582.62
MW13-12	5/5/2014	587.95	--	5.22	--	--	582.73	582.73
MW13-12	9/19/2014	587.95	--	4.14	--	--	583.81	583.81
MW13-12	12/11/2014	586.78	--	5.37	--	--	581.41	581.41
MW13-12	3/9/2015	586.78	--	6.33	--	--	580.45	580.45
MW13-12	6/1/2015	586.78	--	1.41	--	--	585.37	585.37
MW13-12	8/5/2015	586.78	--	3.05	--	--	583.73	583.73
MW13-12	1/8/2016	586.78	--	4.32	--	--	582.46	582.46
MW13-12	3/18/2016	586.78	--	1.10	--	--	585.68	585.68
MW13-12	5/26/2016	586.78	--	4.59	--	--	582.19	582.19
MW13-12	8/12/2016	586.78	--	5.92	--	--	580.86	580.86
MW13-12	12/9/2016	586.78	--	3.11	--	--	583.67	583.67
MW13-12	2/27/2017	586.78	--	1.85	--	--	584.93	584.93
MW13-12	6/19/2017	586.78	--	4.05	--	--	582.73	582.73
MW13-12	9/13/2017	586.78	--	5.31	--	--	581.47	581.47
MW13-12	11/16/2017	586.78	(5)	(5)	(5)	(5)	(5)	(5)
MW13-12	3/22/2018	586.78	--	3.62	--	--	583.16	583.16
MW13-12	5/17/2018	586.78	--	1.47	--	--	585.31	585.31
MW13-12	9/19/2018	586.78	--	5.45	--	--	581.33	581.33
MW13-12	11/29/2018	586.78	--	2.93	--	--	583.85	583.85
MW13-12	3/21/2019	586.78	--	3.56	--	--	583.22	583.22
MW13-12	6/5/2019	586.78	--	2.22	--	--	584.56	584.56
MW13-12	9/9/2019	586.78	--	4.94	--	--	581.84	581.84
MW14-12	4/24/2013	588.11	--	4.42	--	--	583.69	583.69
MW14-12	5/23/2013	588.11	--	5.31	--	--	582.80	582.80
MW14-12	6/20/2013	588.11	--	4.76	--	--	583.35	583.35
MW14-12	7/25/2013	588.11	--	4.20	--	--	583.91	583.91
MW14-12	8/29/2013	588.11	--	6.16	--	--	581.95	581.95
MW14-12	9/27/2013	588.11	--	6.82	--	--	581.29	581.29
MW14-12	10/22/2013	588.11	--	7.33	--	--	580.78	580.78
MW14-12	11/21/2013	588.11	--	7.42	--	--	580.69	580.69
MW14-12	12/11/2013	588.11	--	7.39	--	--	580.72	580.72
MW14-12	1/15/2014	588.11	--	5.23	--	--	582.88	582.88
MW14-12	2/26/2014	588.11	(3)	(3)	(3)	(3)	(3)	(3)
MW14-12	3/25/2014	588.11	--	5.35	--	--	582.76	582.76
MW14-12	5/5/2014	588.11	--	5.22	--	--	582.89	582.89
MW14-12	9/19/2014	588.11	--	3.94	--	--	584.17	584.17
MW14-12	12/11/2014	586.81	--	5.32	--	--	581.49	581.49
MW14-12	3/9/2015	586.81	(4)	(4)	(4)	(4)	(4)	(4)
MW14-12	6/1/2015	586.81	--	4.35	--	--	582.46	582.46
MW14-12	8/5/2015	586.81	--	4.98	--	--	581.83	581.83
MW14-12	1/8/2016	586.81	--	4.67	--	--	582.14	582.14
MW14-12	3/18/2016	586.81	--	3.40	--	--	583.41	583.41
MW14-12	5/26/2016	586.81	--	3.90	--	--	582.91	582.91
MW14-12	8/12/2016	586.81	--	5.88	--	--	580.93	580.93
MW14-12	12/9/2016	586.81	--	4.78	--	--	582.03	582.03
MW14-12	2/27/2017	586.81	--	3.60	--	--	583.21	583.21
MW14-12	6/19/2017	586.81	--	3.58	--	--	583.23	583.23
MW14-12	9/13/2017	586.81	--	5.32	--	--	581.49	581.49
MW14-12	11/16/2017	586.81	--	5.45	--	--	581.36	581.36
MW14-12	3/22/2018	586.81	--	3.42	--	--	583.39	583.39
MW14-12	5/17/2018	586.81	--	2.11	--	--	584.70	584.70
MW14-12	9/19/2018	586.81	--	5.50	--	--	581.31	581.31
MW14-12	11/29/2018	586.81	(6)	(6)	(6)	(6)	(6)	(6)
MW14-12	3/21/2019	586.81	(5)	(5)	(5)	(5)	(5)	(5)

Table 1

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Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
MW14-12	6/5/2019	586.81	--	2.25	--	--	584.56	584.56
MW14-12	9/9/2019	586.81	--	5.05	--	--	581.76	581.76
MW15-12	4/24/2013	588.75	--	6.90	--	--	581.85	581.85
MW15-12	5/23/2013	588.75	--	3.87	--	--	584.88	584.88
MW15-12	6/20/2013	588.75	--	4.32	--	--	584.43	584.43
MW15-12	7/25/2013	588.75	--	3.71	--	--	585.04	585.04
MW15-12	8/29/2013	588.75	--	4.34	--	--	584.41	584.41
MW15-12	9/27/2013	588.75	--	5.26	--	--	583.49	583.49
MW15-12	10/22/2013	588.75	--	5.67	--	--	583.08	583.08
MW15-12	11/21/2013	588.75	--	6.17	--	--	582.58	582.58
MW15-12	12/11/2013	588.75	--	6.41	--	--	582.34	582.34
MW15-12	1/15/2014	588.75	--	5.98	--	--	582.77	582.77
MW15-12	2/26/2014	588.75	(3)	(3)	(3)	(3)	(3)	(3)
MW15-12	3/25/2014	588.75	--	5.48	--	--	583.27	583.27
MW15-12	5/5/2014	588.75	--	5.11	--	--	583.64	583.64
MW15-12	9/19/2014	588.75	--	3.97	--	--	584.78	584.78
MW15-12	12/11/2014	587.26	--	4.67	--	--	582.59	582.59
MW15-12	3/9/2015	587.26	(4)	(4)	(4)	(4)	(4)	(4)
MW15-12	6/1/2015	587.26	--	4.61	--	--	582.65	582.65
MW15-12	8/5/2015	587.26	--	4.60	--	--	582.66	582.66
MW15-12	1/8/2016	587.26	--	4.92	--	--	582.34	582.34
MW15-12	3/18/2016	587.26	--	3.98	--	--	583.28	583.28
MW15-12	5/26/2016	587.26	--	3.59	--	--	583.67	583.67
MW15-12	8/12/2016	587.26	--	5.10	--	--	582.16	582.16
MW15-12	12/9/2016	587.26	--	3.81	--	--	583.45	583.45
MW15-12	2/27/2017	587.26	--	3.55	--	--	583.71	583.71
MW15-12	6/19/2017	587.26	--	3.32	--	--	583.94	583.94
MW15-12	9/13/2017	587.26	--	4.47	--	--	582.79	582.79
MW15-12	11/16/2017	587.26	--	4.98	--	--	582.28	582.28
MW15-12	3/22/2018	587.26	--	3.33	--	--	583.93	583.93
MW15-12	5/17/2018	587.26	--	2.22	--	--	585.04	585.04
MW15-12	9/19/2018	587.26	--	4.44	--	--	582.82	582.82
MW15-12	11/29/2018	587.26	--	2.93	--	--	584.33	584.33
MW15-12	3/21/2019	587.26	(5)	(5)	(5)	(5)	(5)	(5)
MW15-12	6/5/2019	587.26	--	2.87	--	--	584.39	584.39
MW15-12	9/9/2019	587.26	--	4.21	--	--	583.05	583.05
MW16-12	4/24/2013	587.87	--	2.57	--	--	585.30	585.30
MW16-12	5/23/2013	587.87	--	2.91	--	--	584.96	584.96
MW16-12	6/20/2013	587.87	--	2.39	--	--	585.48	585.48
MW16-12	7/25/2013	587.87	--	1.53	--	--	586.34	586.34
MW16-12	8/29/2013	587.87	--	2.41	--	--	585.46	585.46
MW16-12	9/27/2013	587.87	--	3.24	--	--	584.63	584.63
MW16-12	10/22/2013	587.87	--	3.78	--	--	584.09	584.09
MW16-12	11/21/2013	587.87	--	4.16	--	--	583.71	583.71
MW16-12	12/11/2013	587.87	--	4.20	--	--	583.67	583.67
MW16-12	1/15/2014	587.87	--	1.26	--	--	586.61	586.61
MW16-12	2/26/2014	587.87	--	3.27	--	--	584.60	584.60
MW16-12	3/25/2014	587.87	--	3.01	--	--	584.86	584.86
MW16-12	5/5/2014	587.87	--	2.53	--	--	585.34	585.34
MW16-12	9/19/2014	587.87	--	2.25	--	--	585.62	585.62
MW16-12	12/11/2014	586.67	--	2.70	--	--	583.97	583.97
MW16-12	3/9/2015	586.67	(4)	(4)	(4)	(4)	(4)	(4)
MW16-12	6/1/2015	586.67	--	1.91	--	--	584.76	584.76
MW16-12	8/5/2015	586.67	--	2.89	--	--	583.78	583.78
MW16-12	1/8/2016	586.67	--	4.43	--	--	582.24	582.24

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MW16-12	3/18/2016	586.67	--	2.96	--	--	583.71	583.71
MW16-12	5/26/2016	586.67	--	2.53	--	--	584.14	584.14
MW16-12	8/12/2016	586.67	--	4.44	--	--	582.23	582.23
MW16-12	12/9/2016	586.67	--	2.67	--	--	584.00	584.00
MW16-12	2/27/2017	586.67	--	1.84	--	--	584.83	584.83
MW16-12	6/19/2017	586.67	--	1.81	--	--	584.86	584.86
MW16-12	9/13/2017	586.67	--	4.12	--	--	582.55	582.55
MW16-12	11/16/2017	586.67	--	5.09	--	--	581.58	581.58
MW16-12	3/22/2018	586.67	--	2.52	--	--	584.15	584.15
MW16-12	5/17/2018	586.67	--	1.57	--	--	585.10	585.10
MW16-12	9/19/2018	586.67	--	4.56	--	--	582.11	582.11
MW16-12	11/29/2018	586.67	--	2.00	--	--	584.67	584.67
MW16-12	3/21/2019	586.67	--	1.36	--	--	585.31	585.31
MW16-12	6/5/2019	586.67	--	1.31	--	--	585.36	585.36
MW16-12	9/9/2019	586.67	--	4.33	--	--	582.34	582.34
TW-1	4/24/2013	592.43	--	8.53	--	--	583.90	583.90
TW-1	5/23/2013	592.43	9.35	9.35	trace	583.08	583.08	583.08
TW-1	6/20/2013	592.43	8.85	8.85	trace	583.58	583.58	583.58
TW-1	7/25/2013	592.43	8.77	8.81	0.04	583.66	583.62	583.66
TW-1	8/29/2013	592.43	--	11.43	--	--	581.00	581.00
TW-1	9/27/2013	592.43	10.84	10.87	0.03	581.59	581.56	581.59
TW-1	10/22/2013	592.43	10.93	10.98	0.05	581.50	581.45	581.50
TW-1	11/21/2013	592.43	--	12.20	--	--	580.23	580.23
TW-1	12/11/2013	592.43	--	11.91	trace	--	580.52	580.52
TW-1	1/15/2014	592.43	--	11.86	trace	--	580.57	580.57
TW-1	2/26/2014	592.43	--	10.67	trace	--	581.76	581.76
TW-1	3/25/2014	592.43	(2)	(2)	trace (2)	(2)	(2)	(2)
TW-1	5/5/2014	592.43	(2)	(2)	trace (2)	(2)	(2)	(2)
TW-1	9/19/2014	592.43	--	8.28	trace	--	584.15	584.15
TW-1	12/11/2014	591.22	--	9.41	trace	--	581.81	581.81
TW-1	3/9/2015	591.22	10.38	10.39	0.01	580.84	580.83	580.84
TW-1	6/1/2015	591.22	9.13	9.14	0.01	582.09	582.08	582.09
TW-1	8/5/2015	591.22	9.20	9.21	0.01	582.02	582.01	582.02
TW-1	1/8/2016	591.22	9.36	9.36	0.00	581.86	581.86	581.86
TW-1	3/18/2016	591.22	8.45	8.46	0.01	582.77	582.76	582.77
TW-1	5/26/2016	591.22	8.65	8.67	0.02	582.57	582.55	582.57
TW-1	8/12/2016	591.22	10.11	10.11	0.00	581.11	581.11	581.11
TW-1	12/9/2016	591.22	--	8.82	trace	--	582.40	582.40
TW-1	2/27/2017	591.22	8.47	8.50	0.03	582.75	582.72	582.75
TW-1	6/19/2017	591.22	8.39	8.44	0.05	582.83	582.78	582.82
TW-1	9/13/2017	591.22	9.46	9.54	0.08	581.76	581.68	581.75
TW-1	11/16/2017	591.22	9.70	9.75	0.05	581.52	581.47	581.51
TW-1	3/22/2018	591.22	7.38	8.00	0.62	583.84	583.22	583.78
TW-1	5/17/2018	591.22	6.05	6.20	0.15	585.17	585.02	585.15
TW-1	9/19/2018	591.22	9.70	14.54	4.84	581.52	576.68	581.04
TW-1 ⁽¹⁾	11/29/2018	591.22	7.23	7.38	0.15	583.99	583.84	583.97
TW-1 ⁽⁹⁾	3/21/2019	591.22	5.99	7.05	1.06	--	--	--
TW-1 ⁽⁹⁾	6/5/2019	591.22	6.79	7.90	1.11	--	583.32	584.32
TW-1	9/9/2019	591.22	9.48	9.71	0.23	581.74	581.51	581.72
TW-2	4/24/2013	592.20	7.87	8.36	0.49	584.33	583.84	584.28
TW-2	5/23/2013	592.20	9.36	9.65	0.29	582.84	582.55	582.81
TW-2	6/20/2013	592.20	8.56	9.01	0.45	583.64	583.19	583.59
TW-2	7/25/2013	592.20	--	11.80	trace	--	580.40	580.40
TW-2	8/29/2013	592.20	--	10.36	--	--	581.84	581.84
TW-2	9/27/2013	592.20	10.79	10.83	0.04	581.41	581.37	581.40

Table 1

Hydraulic Measurements
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well I.D.	Date	TOC Elevation (ft amsl)	DTP (ft BTOC)	DTW (ft BTOC)	LNAPL Thickness (ft)	Top of LNAPL Elevation (ft amsl)	Bottom of LNAPL/ Groundwater Elevation (ft amsl)	Corrected GW Elevation (ft amsl)
TW-2	10/22/2013	592.20	10.95	11.01	0.06	581.25	581.19	581.24
TW-2	11/21/2013	592.20	--	11.67	trace	--	580.53	580.53
TW-2	12/11/2013	592.20	11.35	11.44	0.09	580.85	580.76	580.84
TW-2	1/15/2014	592.20	10.23	10.28	0.05	581.97	581.92	581.96
TW-2	2/26/2014	592.20	10.38	10.39	0.01	581.82	581.81	581.82
TW-2	3/25/2014	592.20	9.43	9.44	0.01	582.77	582.76	582.77
TW-2	5/5/2014	592.20	9.32	9.53	0.21	582.88	582.67	582.86
TW-2	9/19/2014	592.20	8.18	9.01	0.83	584.02	583.19	583.93
TW-2	12/11/2014	590.92	9.30	9.91	0.61	581.62	581.01	581.56
TW-2	3/9/2015	590.92	10.20	10.67	0.47	580.72	580.25	580.67
TW-2	6/1/2015	590.92	8.66	8.90	0.24	582.26	582.02	582.23
TW-2	8/5/2015	590.92	9.07	9.38	0.31	581.85	581.54	581.82
TW-2	1/8/2016	590.92	9.28	9.28	0.00	581.64	581.64	581.64
TW-2	3/18/2016	590.92	8.15	8.17	0.02	582.77	582.75	582.77
TW-2	5/26/2016	590.92	8.59	8.62	0.03	582.33	582.30	582.32
TW-2	8/12/2016	590.92	9.99	10.41	0.42	580.93	580.51	580.89
TW-2	12/9/2016	590.92	8.88	8.89	0.01	582.04	582.03	582.04
TW-2	2/27/2017	590.92	8.21	8.39	0.18	582.71	582.53	582.69
TW-2	6/19/2017	590.92	8.32	8.50	0.18	582.60	582.42	582.58
TW-2	9/13/2017	590.92	9.33	9.90	0.57	581.59	581.02	581.53
TW-2	11/16/2017	590.92	9.50	9.66	0.16	581.42	581.26	581.40
TW-2	3/22/2018	590.92	7.60	7.89	0.29	583.32	583.03	583.29
TW-2	5/17/2018	590.92	5.85	6.14	0.29	585.07	584.78	585.04
TW-2	9/19/2018	590.92	9.61	9.93	0.32	581.31	580.99	581.28
TW-2	11/29/2018	590.92	(3)	(3)	(3)	(3)	(3)	(3)
TW-2	3/21/2019	590.92	7.33	7.90	0.57	583.59	583.02	583.53
TW-2	6/5/2019	590.92	6.70	6.91	0.21	584.22	584.01	584.20
TW-2	9/9/2019	590.92	9.43	9.44	0.01	581.49	581.48	581.49

Notes:

- Not present
- BTOC Below top of casing
- DTP Depth to product
- DTW Depth to water
- ft Feet
- ft amsl Feet above mean sea level
- GW Groundwater
- LNAPL Light Non-Aqueous Phase Liquid
- TOC Top of casing
- trace Trace LNAPL present on oil/water interface probe
- (1) Damaged Well
- (2) The measuring point elevation (top of casing) needs to be re-verified
- (3) Unable to access due to snow and ice
- (4) Unable to measure level - area flooded
- (5) Full with water
- (6) Unable to access due to obstructing object
- (7) Depth to water measured from ground surface. Stick up length was added
- (8) Water level is estimated, water level is too high to obtain an accurate measurement
- (9) Depth to water/LNAPL was measured from bottom of riser due to damage
- (10) Debris present. Unable to locate

Table 2

LNAPL Thickness (Feet) Observations
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well ID	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9	EX-10	EX-11	EX-12	EX-13	EX-14	EX-15	EX-16	EX-17	EX-18	EX-19	EX-20	EX-21	EX-22	EX-23	EX-24	EX-25	EX-26	EX-27	EX-28
April 24, 2013	--	--	0.03	--	--	--	--	0.02	--	--	0.01	--	--	--	--	--	--	--	--	--	--	0.01	--	0.01	--	--		
May 23, 2013	--	--	0.17	--	0.04	--	--	--	0.24	--	0.31	0.78	--	--	--	0.09	--	--	--	--	0.16	0.36	0.03	1.52	--	0.50	--	--
June 20, 2013	--	--	0.12	--	trace	--	--	--	0.19	--	0.34	0.38	--	--	--	0.08	--	--	--	--	0.15	0.64	0.03	1.90	--	0.44	trace	0.06
July 25, 2013	--	--	0.15	trace	trace	--	--	--	--	0.57	--	--	--	--	--	0.15	trace	--	--	--	0.06	--	--	--	--	0.42	--	0.17
August 29, 2013	--	--	0.13	0.06	3.99	--	--	--	0.59	--	--	--	--	--	--	0.03	0.10	0.03	--	--	0.38	--	0.50	0.48	--	0.46	--	trace
September 27, 2013	--	--	0.23	0.17	--	--	--	--	0.39	0.16	0.13	1.60	--	--	--	0.22	0.14	--	--	--	0.11	0.08	0.30	0.69	--	0.52	0.31	0.12
October 22, 2013	--	--	0.24	0.23	0.52	--	--	--	0.50	0.22	0.34	1.97	--	--	--	0.28	0.14	--	--	--	0.19	0.08	0.50	1.07	--	0.65	0.66	0.11
November 21, 2013	--	--	0.19	0.10	0.00	--	--	--	0.10	0.12	--	0.02	--	--	--	0.05	0.01	--	--	--	0.03	0.20	0.09	2.35	--	0.19	0.04	0.16
December 11, 2013	--	--	0.03	--	--	--	--	--	0.01	--	0.01	--	--	--	--	--	trace	--	--	--	trace	0.11	0.02	1.02	--	0.64	--	0.12
January 15, 2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	trace	--	--	--	--	0.03	0.01	0.38	--	--	--	0.11	
February 26, 2014	--	--	--	0.02	--	--	--	--	--	--	0.51	--	--	--	--	--	--	--	--	--	0.01	0.05	0.13	--	trace	0.07	0.11	
March 25, 2014	--	--	--	--	--	--	--	--	--	--	0.50	--	--	--	--	--	--	--	--	--	--	0.03	0.42	--	--	--	--	--
May 5, 2014	--	--	trace	trace	0.01	--	--	--	0.01	--	trace	0.35	--	--	--	0.02	--	--	--	--	--	0.09	0.01	0.97	--	trace	--	0.01
September 19, 2014	--	--	0.06	trace	0.01	--	--	--	0.02	0.02	trace	0.26	--	--	--	0.42	trace	--	--	--	0.01	1.75	0.02	2.34	--	0.86	0.01	0.22
December 11, 2014	--	--	0.28	0.04	trace	--	--	--	0.06	0.16	0.67	2.57	--	--	--	0.63	--	--	--	--	0.15	0.46	0.46	1.10	--	0.53	0.08	0.37
March 9, 2015	--	--	0.39	0.30	0.04	--	--	--	0.20	0.28	1.30	1.90	--	--	--	0.42	--	--	--	--	0.15	0.37	0.56	0.96	--	0.68	0.20	0.22
June 1, 2015	--	--	0.02	0.02	trace	--	--	--	0.02	trace	1.23	2.20	--	--	--	0.34	--	--	--	--	0.07	0.09	0.32	0.97	--	0.03	--	0.03
August 5, 2015	--	--	trace	0.07	trace	0.02	--	--	0.02	0.12	1.75	2.56	--	--	--	0.84	--	--	--	--	0.02	trace	0.01	1.40	--	0.59	0.02	0.20
January 8, 2016	--	--	trace	0.22	trace	0.11	--	--	0.07	0.01	1.83	1.44	--	--	--	0.22	--	--	--	--	0.13	trace	0.30	1.11	--	0.25	0.17	0.05
March 18, 2016	--	--	0.21	0.13	0.01	0.12	--	--	0.13	--	1.75	0.08	--	--	--	0.26	trace	--	--	--	0.04	0.11	0.13	1.61	--	0.38	--	0.01
May 26, 2016	--	--	0.23	0.15	0.01	0.07	--	--	0.11	0.01	2.17	0.62	--	--	--	0.18	0.01	--	--	--	0.09	0.19	0.14	1.96	--	0.74	0.31	0.02
August 12, 2016	--	--	0.30	0.15	0.10	0.07	--	--	0.18	0.25	3.28	1.26	--	--	--	0.57	trace	--	--	--	trace	0.46	1.11	1.36	--	0.95	0.54	trace
December 9, 2016	--	--	trace	0.19	0.13	0.01	--	--	0.14	0.01	2.57	1.32	--	--	--	0.44	trace	trace	--	--	0.25	0.75	0.43	1.47	--	0.67	0.42	0.07
February 27, 2017	--	--	0.59	0.17	0.06	0.05	--	--	0.09	--	2.43	1.06	--	--	--	0.55	0.01	trace	--	--	0.08	0.58	0.38	1.89	--	0.10	0.31	0.20
June 19, 2017	--	--	0.63	0.18	0.07	0.01	--	--	0.31	0.07	3.36	1.75	--	--	--	0.37	0.01	0.15	--	--	0.13	0.81	0.43	1.82	--	1.11	0.70	0.17
September 13, 2017	--	--	0.57	0.55	0.31	0.03	NM	--	0.11	0.19	3.22	3.02	--	--	--	0.59	0.59	0.15	--	--	0.28	0.38	1.58	1.62	--	0.61	1.00	0.70
November 16, 2017	--	--	0.38	0.60	0.37	0.01	--	--	0.10	0.04	3.00	2.26	--	--	--	0.37	0.52	0.02	--	--	0.32	0.11	0.95	1.20	--	0.39	0.56	0.36
March 22, 2018	--	--	0.38	0.58	0.05	0.01	--	--	0.10	0.04	1.08	1.46	--	--	--	0.21	0.38	0.11	--	--	0.09	0.17	0.27	1.46	--	0.29	0.20	0.10
May 17, 2018	--	--	0.45	0.27	0.01	--	--	--	0.09	0.01	4.84	1.02	--	--	--	0.16	0.39	0.01	--	--	0.12	0.19	0.34	1.67	--	0.22	0.29	0.17
September 19, 2018	--	--	0.24	1.72	0.41	0.02	--	--	0.21	0.07	3.98	3.07	--	--	--	0.48	8.98	0.69	--	--	0.38	0.50	1.43	1.32	--	0.76	1.68	0.72
November 29, 2018	--	--	0.39	0.66	0.04	--	--	--	0.20	0.01	3.52	1.18	--	--	--	0.38	0.61	0.01	--	--	0.16	0.30	0.34	1.24	--	0.29	0.24	0.38
March 21, 2019	--	--	0.54	0.90	0.43	--	--	--	0.44	0.22	4.02	2.14	--	--	--	0.41	0.87	0.03	--	--	0.99	0.41	0.76	1.99	--	0.70	0.85	0.46
June 5, 2019	--	--	0.90	0.49	0.01	0.01	--	--	0.02																			

Table 2

LNAPL Thickness (Feet) Observations
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Well ID	EX-29	EX-30	EX-31	EX-32	EX-33	EX-34	EX-35	EX-36	MW1-08	MW2-08	MW3R-08	MW4-08	MW5-08	MW6-10	MW7-10	MW8-10	MW9-10	MW10-10	MW11-12	MW13-12	MW14-12	MW15-12	MW16-12	TW-1	TW-2	
April 24, 2013	0.29	--	0.01	0.13	--	--	--	--	--	--	trace	--	--	3.22	2.17	--	--	0.07	--	--	--	--	--	--	0.49	
May 23, 2013	--	--	0.03	--	--	--	--	--	--	--	trace	--	--	3.37	1.56	--	--	0.94	--	--	--	--	--	trace	0.29	
June 20, 2013	0.09	--	--	0.12	--	--	trace	--	--	--	--	--	--	3.64	2.16	--	--	0.41	--	--	--	--	--	trace	0.45	
July 25, 2013	0.03	--	trace	--	trace	--	--	0.01	--	--	trace	trace	--	trace	trace	--	--	0.62	--	--	--	--	--	0.04	trace	
August 29, 2013	0.46	--	0.07	10.85	0.64	--	0.64	0.73	--	--	trace	--	--	trace	trace	--	--	1.04	--	--	--	--	--	--	--	
September 27, 2013	0.62	--	0.17	--	--	--	trace	0.01	--	--	--	--	--	1.72	0.41	--	--	0.05	--	--	--	--	--	0.03	0.04	
October 22, 2013	1.01	--	0.25	--	--	--	--	--	--	--	trace	--	--	1.87	0.38	--	--	trace	--	--	--	--	--	0.05	0.06	
November 21, 2013	0.22	--	0.03	0.14	0.01	--	0.08	0.36	--	--	trace	--	--	0.40	trace	--	--	0.57	--	--	--	--	--	--	trace	
December 11, 2013	0.03	--	trace	0.12	--	--	0.02	0.17	--	--	trace	--	--	0.01	trace	--	--	0.47	--	--	--	--	--	trace	0.09	
January 15, 2014	0.02	--	--	0.01	--	--	trace	0.28	--	--	--	--	--	trace	0.15	--	--	0.35	--	--	--	--	--	trace	0.05	
February 26, 2014	0.06	--	--	0.05	--	--	0.01	0.02	--	--	--	--	--	0.07	0.03	--	--	--	--	--	--	--	--	trace	0.01	
March 25, 2014	trace	--	--	0.03	--	--	0.02	0.02	--	--	--	--	--	0.33	0.42	--	--	--	--	--	--	--	--	trace	0.01	
May 5, 2014	0.05	trace	0.04	--	--	--	0.06	0.04	--	(1)	--	--	--	2.13	1	--	--	--	--	--	--	--	--	trace	0.21	
September 19, 2014	trace	--	--	trace	trace	--	0.07	0.63	--	--	--	--	--	3.65	3.21	--	--	0.09	--	--	--	--	--	trace	0.83	
December 11, 2014	0.15	--	--	0.37	0.01	--	0.12	0.43	--	--	trace	--	--	2.73	1.98	--	--	0.12	--	--	--	--	--	trace	0.61	
March 9, 2015	0.27	--	0.12	0.23	trace	--	0.41	0.46	--	--	--	--	--	2.01	1.35	--	--	0.55	(2)	--	(2)	(2)	(2)	0.01	0.47	
June 1, 2015	0.16	--	--	0.09	--	--	0.31	0.52	--	--	--	--	--	2.72	1.62	--	--	0.09	--	--	--	--	--	0.01	0.24	
August 5, 2015	0.33	--	--	0.06	trace	--	0.29	0.71	--	--	--	--	--	3.11	2.03	--	--	0.47	--	--	--	--	--	0.01	0.31	
January 8, 2016	0.31	--	0.07	0.16	trace	--	0.32	0.52	--	--	--	--	--	2.57	1.35	--	--	trace	--	--	--	--	--	0.01	trace	
March 18, 2016	0.31	--	0.04	0.35	0.01	--	0.45	0.5	--	--	--	--	--	3.27	1.94	--	--	--	--	--	--	--	--	0.01	0.02	
May 26, 2016	0.36	--	0.01	0.46	0.22	--	0.02	0.52	--	--	--	--	--	4	3.14	--	--	0.1	--	--	--	--	--	0.02	0.03	
August 12, 2016	0.35	--	0.01	0.01	0.28	--	0.63	0.1	--	--	--	--	--	2.76	1.24	--	--	0.83	--	--	--	--	--	trace	0.42	
December 9, 2016	0.58	--	trace	0.61	0.14	--	0.32	0.77	--	--	--	--	--	1.46	3.05	--	--	0.28	--	--	--	--	--	trace	0.01	
February 27, 2017	0.43	--	trace	0.61	trace	--	0.32	0.77	--	--	--	--	--	3.45	2.52	--	--	0.13	--	--	--	--	--	0.03	0.18	
June 19, 2017	0.54	--	trace	0.48	1.24	--	0.32	0.77	--	--	--	--	--	5.13	3.13	--	--	0.69	--	--	--	--	--	0.05	0.18	
September 13, 2017	0.67	--	0.2	0.47	1.04	--	0.42	0.71	--	--	--	--	--	2.4	2.22	--	--	0.47	--	--	--	--	--	0.08	0.57	
November 16, 2017	0.66	--	0.06	0.5	0.39	--	0.4	0.55	--	--	--	--	--	(1)	3.06	--	--	0.46	--	(3)	--	--	--	--	0.05	0.16
March 22, 2018	0.7	--	0.03	0.53	0.34	--	0.34	0.47	--	--	--	--	--	(1)	2.3	--	--	0.13	--	--	--	--	--	0.62	0.29	
May 17, 2018	0.27	--	--	0.33	0.49	--	0.44	0.41	--	--	--	--	--	--	4.27	--	--	0.01	--	--	--	--	--	0.15	0.29	
September 19, 2018	0.76	--	0.01	1.74	0.68	--	0.53	0.56	--	--	--	--	--	1.59	1.38	--	--	0.81	--	--	--	--	--	4.84	0.32	
November 29, 2018	0.62	--	--	0.9	0.61	--	0.46	0.7	--	--	--	--	(4)	--	1.04	3.21	--	--	--	--	(5)	--	--	0.15	(4)	
March 21, 2019	1.09	--	--	1.34	1.41	--	0.65	0.83	--	--	--	(3)	--	--	5.44	--	--	--	--	--	(6)	--	--	1.06	0.57	
June 5, 2019	0.86	--	0.01	0.9	3.31	--	0.46	0.5	--	--	--	--	(1)	5.12	--	--	--	(6)	--	--	--	--	--	1.11	0.21	
September 9, 2019	0.63	--	0.00	0.58	0.87	--	0.01	0.53	--	--	--	--	--	0.01	1.6	--	--	0.1	--	--	--	--	--	0.23	0.01	

Notes:

LNAPL Light Non-Aqueous Phase Liquid

-- LNAPL not present

trace Trace LNAPL present on oil/water interface probe

NM Not measured

(1) Well damaged just below ground surface. Unable to collect levels.

(2) Unable to measure level - area flooded.

(3) Water present. Unable to collect accurate reading.

(4) Unable to access due to snow and ice

(5) Unable to access due to obstructing object

(6) Unable to locate due to debris

Table 3

Pressure Measurements
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Gas Probe ID	GP1-12 (inches H ₂ O)	GP2-12 (inches H ₂ O)	GP3-12 (inches H ₂ O)	GP4-12 (inches H ₂ O)	GP5-12 (inches H ₂ O)	GP6-12 (inches H ₂ O)	GP7-12 (inches H ₂ O)	GP8-12 (inches H ₂ O)
4/24/2013	-10.38	0.00	0.00	-0.59	15.10	-41.00	0.68	0.44
5/23/2013	-0.50	0.00	0.00	-0.14	0.96	-1.39	0.00	-9.50
6/20/2013	-0.13	0.00	0.00	0.82	13.70	0.00	0.50	0.00
7/25/2013	0.00	0.00	0.00	-4.29	2.68	-0.94	0.00	0.00
8/29/2013	0.00	0.00	0.00	0.00	3.13	-5.10	0.00	0.11
9/27/2013	0.00	0.00	0.00	-0.52	0.00	1.69	0.00	-5.63
10/22/2013	0.00	0.00	0.00	-0.19	0.00	-8.56	0.00	0.00
11/20/2013	0.00	0.00	0.00	0.00	0.00	-0.47	0.00	0.00
12/11/2013	0.00	0.00	0.00	-5.60	0.00	0.00	0.00	-5.60
1/15/2014	-0.19	(1)	0.00	-0.61	-3.42	(2)	6.10	0.38
2/26/2014	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
3/24/2014	17.70	0.00	0.85	-4.54	-3.26	(3)	-5.75	0.00
5/5/2014	-3.53	0.00	0.00	-2.23	-3.01	-5.78	0.63	-0.48
8/15/2014	0.51	0.00	-0.66	-0.21	-2.83	-3.33	-1.02	0.00
9/19/2014	0.00	0.00	0.14	-1.72	-0.82	-1.09	-0.67	0.00
12/11/2014	0.00	4.45	-1.82	-6.18	0.00	-2.60	0.00	-4.46
3/9/2015	-0.02	0.00	-1.25	-3.8 ⁽⁴⁾	-2.00	0.00	0.11	-2.00
6/1/2015	-0.09	0.00	0.00	0.44	-3.30	-5.71	0.50	0.18
8/5/2015	0.00	0.00	0.00	0.00	0.00	-0.32	0.00	-0.50
11/30/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04
1/8/2016	0.00	0.00	-0.22	-0.33	0.26	-2.78	0.00	2.20
3/18/2016	0.01	-0.02	-0.43	-0.42	-0.05	-2.00	0.00	0.12
5/26/2016	0.00	0.00	-0.34	-0.26	0.00	-8.15	0.00	-0.77
8/12/2016	0.00	0.00	0.33	0.25	0.00	0.02	0.00	-0.21
12/9/2016	0.00	0.00	-0.44	-0.16	0.00	-2.38	0.00	-6.66
2/27/2017	0.00	0.00	-3.40	0.00	-1.74	4.24	0.00	-0.15
6/19/2017	-0.05	0.01	0.14	-0.19	-1.50	-1.37	0.02	-0.32
9/13/2017	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00
11/16/2017	0.01	0.01	0.01	0.01	0.00	-0.02	-0.01	0.01
3/22/2018	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00
5/17/2018	0.03	0.01	0.00	0.01	0.00	--	0.02	0.01
9/17/2018	0.01	0.00	0.03	-0.01	-0.01	0.01	0.00	-0.05
9/19/2018	0.00	0.00	0.38	0.00	0.00	0.00	-0.04	(3)
11/29/2018	0.00	0.00	1.70	0.38	0.04	(3)	(5)	1.98
3/21/2019	0.44	0.02	0.38	0.12	0.15	(5)	0.02	-0.10
6/5/2019	--	--	(5)	(5)	--	(6)	(5)	(5)
9/6/2019	0.00	0.00	0.08	-0.30	-0.01	-0.54	0.00	(7)
9/9/2019	0.00	0.00	0.05	0.00	-0.15	0.01	0.00	-0.27

Notes:

Pressure measurements in inches of water column (H₂O)

Pressure measurements collected using a digital manometer

(1) Unable to locate due to snow and ice

(2) Unable to access due to ice

(3) Flooded. Unable to collect reading

(4) Valve was open before collecting reading

(5) Water present. Unable to collect accurate reading.

(6) Debris present. Unable to locate.

(7) Line Obstructed.

Table 4

Methane Monitoring
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Location ID	4/26/2013				4/29/2013				5/7/2013				6/5/2013				8/30/2013				9/26/2013				10/23/2013				11/20/2013				12/16/2013				1/16/2014				2/26/2014									
	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time														
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)																																										
GP1-12	0.0	2.2	17.2	3					nm				0.1	9.1	0.2	2	0.0	3.3	16.3	2	0.0	8.0	0.3	2	0.0	8.2	3.8	2	0.0	0.7	19.8	2	0.0	1.0	19.8	2					nm									
GP2-12	0.0	1.9	16.2	3					nm				0.0	5.0	5.2	2	0.0	5.2	5.5	2	0.0	6.1	10.4	2	0.0	6.3	12.9	2	0.0	0.3	3.6	16.0	2	0.0	3.2	14.7	2					nm								
GP3-12	0.0	0.0	20.7	3					nm				0.0	7.9	1.9	2	0.0	13.4	1.6	2	0.0	13.1	1.2	2	0.0	11.5	2.4	2	0.0	0.8	3.9	2	0.0	6.6	6.1	2					nm									
GP4-12			screen flooded					nm				nm				0.0	0.8	17.0	2	0.0	0.9	16.3	2	0.0	0.3	0.0	14.9	2	0.0	7.2	2.6	2	0.0	0.0	0.0	20.7	2				nm									
GP5-12			screen flooded					nm				nm				0.0	0.9	16.3	2	0.0	0.3	0.0	14.9	2	0.0	7.2	2.6	2	0.0	0.0	0.0	20.1	2				nm													
GP6-12			screen flooded					nm				nm				8.3	4.5	0.1	2																															
GP7-12			screen flooded					nm				nm				0.0	7.7	1.4	2	0.0	11.4	8.8	2	0.0	11.3	0.2	2	0.0	12.2	3.0	2	0.3	1.2	16.8	2	0.0	5.4	13.7	2	0.1	3.4	4.6	2				nm			
GP8-12	0.0	0.0	20.9	3				nm				nm				0.0	1.7	17.7	2	0.0	0.0	20.0	2	0.0	1.8	16.0	2	0.0	0.1	20.4	4	0.0	8.9	11.1	4	0.0	6.0	5.2	2	0.0	6.0	4.4	2				nm			
MPE Exhaust	<0.1	0.0	20.8	3				nm																																										
EX-1			nm		0.0	3.7	4.5	2				nm				0.0	6.4	2.7	2	0.0	5.9	8.5	2	0.0	10.6	0.4	2	0.0	5.8	7.0	2	0.0	2.8	17.5	2	0.0	3.8	13.8	2	0.0	4.8	6.0	2	0.0	7.4	1.4	2			
EX-2			nm		0.0	0.3	17.8	2				nm				0.0	2.7	11.6	2	0.0	0.1	20.2	2	0.0	9.9	0.1	2	0.0	6.2	4.6	2	0.0	9.7	3.1	2	0.0	7.2	6.2	2	0.0	4.2	12.5	2	0.0	8.3	0.0	2			
EX-3 ⁽⁷⁾	0.0	0.0	21.1	0	1.0	2.8	1.4	2				nm				7.2	4.2	0.0	2	2.2	3.9	5.2	2	4.9	9.5	0.0	2	6.7	8.6	0.1	2	1.1	3.9	0.1	2	0.0	0.1	19.9	2	0.0	0.1	19.5	2	0.2	7.1	2.3	2			
EX-4 ⁽⁷⁾			nm		4.5	0.3	11.5	2				nm				16.1	0.8	0.0	2	9.7	0.8	3.4	2	10.6	4.4	0.7	2	22.2	2.4	0.1	2	0.8	6.4	1.3	2	4.9	2.7	2.6	2	0.0	0.0	20.2	2	0.0	4.0	4.0	2			
EX-5			nm		29.8	0.3	6.6	2				nm				11.1	3.9	0.5	2	21.8	5.0	1.6	2	11.8	6.5	0.0	2	25.9	7.6	0.0	2	0.0	0.2	18.4	2	2.9	2.5	11.6	2	0.0	0.0	20.1	2	0.0	0.2	19.7	2			
EX-6			nm		2.3	2.5	0	0				nm				5.0	2.6	0.1	2	0.0	0.0	20.6	2	1.4	3.6	1.7	2	4.2	2.8	0.3	2	0.0	0.6	15.5	2	0.0	0.0	20.2	2	4.2	2.4	1.8	2	1.7	1.6	0.0	2			
EX-7			nm		0.0	0.4	19.2	2				nm				0.0	4.5	6.4	2	0.0	0.7	17.4	2	0.0	10.3	0.0	2	0.0	8.5	0.3	2	0.0	5.1	10.6	2	0.0	0.0	20.3	2	0.0	0.0	20.0	2	0.0	7.9	0.0	2			
EX-8 ⁽⁷⁾			nm		0.0	0.0	20.3	2				nm				0.0	2.2	10.5	2	0.2	1.7	14.2	2	0.6	7.7	0.0	2	1.2	8.5	0.0	2	0.3	10.7	0.0	2	0.0	0.0	20.1	2	0.0	0.0	19.8	2	0.0	6.2	1.8	2			
EX-9			nm		3.2	3.6	0	2				nm				9.1	4.4	0.1	2	5.1	3.6	7.3	2	9.6	5.2	0.0	2	13.1	5.6	0.0	2	1.3	9.3	0.0	2	1.4	5.5	0.0	2	1.0	5.2	0.0	2	1.6	5.4	0.0	2			
EX-10 ⁽⁷⁾			nm		1.9	1.1	5.9	2				nm				0.0	0.3	18.7	2	0.0	0.0	20.9	2	0.1	1.8	16.0	2	2.9	1.6	16.3	2	0.4	7.5	1.9	2	1.1	1.7	13.9	2	0.0	0.0	20.2	2	0.0	0.9	17.6	2			
EX-11			nm		18.7	0.0	13.8	2				nm				25.5	1.9	1.9	2	0.0	0.0	20.8	2	9.8	1.5	0.0	2	15.2	2.9	0.6	2	0.8	0.2	14.1	2	0.0	0.0	20.4	2	0.0	0.0	20.2	2	0.4	7.8	0.0	2			
EX-12			nm		0.3	2.4	5.9	2				nm				3.4	3.2	0.3	2	0.0	0.0	20.8	2	5.6	7.7	0.0	2	6.6	6.8	2.2	2																			

Table 4

Methane Monitoring
 Quarterly Progress Report #26 (July, August and September 2019)
 Former Dearborn Refining Site
 Dearborn, Michigan

Location ID	3/24/2014				5/5/2014				8/15/2014				9/19/2014				12/11/2014				3/9/2015				6/1/2015				6/10/2015				6/12/2015				8/5/2015				8/7/2015				
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)									
GP1-12					0.0	5.3	2.5	2	7.4	7.9	0.0	2	0.6	9.3	0.0	2	3.0	5.6	0.5	2	0.2	5.1	0.0	2	5.3	6.0	0.0	2	10.6	6.0	0.0	2	9.7	6.8	0.0	2	14.2	7.1	0.2	2	16.1	6.8	0.0	2	
GP2-12	0.0	1.0	13.1	2	0.0	1.9	10.5	2	0.0	6.5	4.5	2	0.0	6.9	10.7	2	nm	0.0	2.5	16.1	2	0.0	4.5	15.0	2	0.0	6.2	2.2	2	0.0	5.9	5.3	2	0.0	8.6	6.1	2	0.0	8.1	7.7	2				
GP3-12					0.0	0.2	19.6	2	nm				nm				nm	0.0	5.3	4.1	2	0.0	9.7	5.5	2	0.0	8.4	4.9	2	0.0	9.0	5.7	2	0.0	13.0	3.0	2	0.0	13.6	3.1	2				
GP4-12					nm				nm				nm				nm				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				0.0	13.6	5.3	2	0.0	12.9	6.4	2					
GP5-12					nm				0.0	5.4	2.1	2	0.0	8.8	1.4	2	0.0	8.5	3.0	2	0.0	6.4	6.7	2	0.0	4.7	4.0	2	0.0	7.7	0.2	2	0.0	8.0	1.8	2	0.0	9.4	2.0	2	0.0	8.8	0.8	2	
GP6-12					nm				nm				nm				nm	6.4	5.1	0.2	2	28.8	7.3	0.0	2	27.4	7.4	0.0	2	26.7	7.8	0.0	2	29.9	9.5	0.5	20 seconds ⁽⁸⁾	32.3	9.1	0.0	2				
GP7-12					nm				0.0	3.9	0.7	2	nm				0.0	12.6	0.1	2	0.0	10.0	5.7	2	0.0	7.0	4.5	2	0.2	9.8	1.3	2	0.0	11.8	1.5	2	0.0	12.8	2.0	2	0.0	16.6	0.8	2	
GP8-12					nm				0.0	3.0	15.2	2	0.0	3.6	6.2	2	0.0	2.6	12.0	2	nm	0.0	4.6	2.0	2	0.1	1.7	12.7	2	0.0	4.3	5.6	0.5	0.0	4.5	9.5	30 seconds ⁽⁸⁾	0.0	7.3	6.8	2	0.0	7.2	10.8	20 seconds ⁽⁸⁾
MPE Exhaust					nm				nm				nm				nm ⁽¹⁾																												
EX-1	0.0	6.2	0.7	2	0.0	8.7	0.0	2	2.4	10.1	0.0	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				0.0	3.1	11.5	2	0.0	4.0	11.4	2							nm		
EX-2	0.5	7.1	0.0	2	1.1	6.4	0.2	2	9.2	5.1	0.0	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				2.3	4.6	5.3	2	4.7	6.4	1.6	2							nm		
EX-3 ⁽⁷⁾	0.2	5.0	5.3	2	0.0	1.0	17.7	2	9.1	9.9	4.4	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				15.5	5.3	1.4	2	4.1	6.5	5.4	2							nm		
EX-4 ⁽⁷⁾	0.0	3.4	3.9	2	0.4	2.5	6.9	2	12.9	3.5	2.4	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				9.7	3.1	8.8	2	7.0	5.9	4.0	2							nm		
EX-5	0.0	3.1	5.0	2	0.0	1.6	14.1	2	15.2	1.2	12.2	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				5.1	1.2	15.2	2	7.3	5.0	6.9	2							nm		
EX-6	2.6	1.4	0.0	2	2.6	1.6	0.0	2	7.0	2.0	0.0	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				8.3	3.9	0.0	2	12.8	5.7	0.0	2							nm		
EX-7	0.1	7.0	0.0	2	0.3	6.7	0.0	2	3.4	6.2	0.4	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				1.3	5.1	0.0	2	3.9	5.5	0.0	2							nm		
EX-8 ⁽⁷⁾	0.0	5.9	0.0	2	1.3	5.4	0.8	2	12.4	5.4	0.0	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				10.0	6.1	0.0	2	11.2	6.9	0.0	2							nm		
EX-9	3.9	4.0	0.0	2	5.3	3.7	0.0	2	14.7	4.9	0.0	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				10.2	5.6	3.7	2	10.3	6.4	3.9	2							nm		
EX-10 ⁽⁷⁾	1.7	6.7	0.0	2	1.0	4.0	5.0	2	11.9	6.2	1.9	2	nm				nm ⁽²⁾				nm ⁽²⁾				nm ⁽²⁾				17.5	6.0	1.8	2	4.4	4.0	9.7	2							nm		
EX-11	0.2	1.0	16.0	2	0.0	0.9	17.8	2	0.0	0.0	20.7	2	nm				nm ⁽²⁾				nm ⁽²⁾				0.0	0.0	18.0	2	0.1	0.0	18.4	2	0.0	0.0	19.5	2							nm		
EX-12	0.0	2.8	4.4	2	0.0	3.2	11.5	2	0.0	0.0	20.8	2	nm				nm ⁽²⁾		</td																										

Table 4

Methane Monitoring
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Location ID	8/27/2015				9/25/2015				11/30/2015				1/8/2016				3/18/2016				5/26/2016				8/12/2016				10/20/2016				12/9/2016				2/27/2017				6/19/2017			
	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time	CH ₄	CO ₂	O ₂	Purge Time								
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)				
GP1-12	15.6	7.0	0.0	2	14.7	7.1	0.0	2	12.2	4.8	0.0	2	0.0	5.3	0.1	2	0.0	5.2	5.2	2	0.0	9.3	1.7	2	0.0	12.9	1.0	2	0.0	8.6	6.0	2	0.0	5.3	13.3	2	0.0	2.8	17.1	2	0.0	8.0	8.4	1
GP2-12	0.0	7.7	10.8	2	0.0	7.8	11.1	2	0.0	4.7	14.2	2	0.0	3.5	13.2	2	0.0	2.4	15.4	2	0.0	4.1	7.4	2	0.0	5.4	14.3	2	0.0	5.2	14.9	2	0.0	3.2	18.6	2	0.0	1.8	18.8	2	0.1	4.7	16.2	2
GP3-12	0.0	14.0	3.2	2	0.0	12.5	5.3	2	0.0	6.8	6.6	2	nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾			
GP4-12	0.0	10.9	7.5	2	0.0	8.4	14.5	2	0.0	3.2	12.7	2	nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽¹⁾				nm ⁽³⁾				0.0							
GP5-12	0.0	9.0	3.0	2	0.0	9.0	3.0	2	0.0	8.1	0.5	2	0.0	6.6	1.1	2	0.0	5.6	2.1	2	0.0	6.4	1.6	2	0.0	11.4	0.0	2	0.0	8.3	3.2	2	0.0	6.2	4.7	2	0.0	3.3	11.9	2	0.0	7.1	4.5	2
GP6-12	33.3	9.1	0.0	2	32.8	8.7	0.0	2	20.0	7.1	0.0	2	30.3	5.6	2.4	30 seconds ⁽⁸⁾	nm ⁽³⁾				53.0				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				65.4				4.7			
GP7-12	0.0	15.6	0.0	2	0.0	16.4	2.7	2	0.0	13.1	1.0	2	0.0	9.8	4.2	2	0.0	7.7	7.0	2	0.0	9.7	2.2	2	0.0	13.4	2.1	2	0.0	12.7	3.6	2	0.0	5.8	12.8	2	0.0	5.8	10.3	2	0.1	9.5	7.5	2
GP8-12	0.0	5.0	3.9	30 seconds ⁽⁸⁾	0.0	5.0	2.4	30 seconds ⁽⁸⁾	0.1	4.3	2.3	2	0.0	4.3	2.0	2	0.0	4.2	13.9	20 seconds ⁽⁸⁾	0.0	6.0	11.3	30 seconds ⁽⁸⁾	0.0	3.3	6.7	2	0.0	8.0	9.6	20 seconds	0.0	0.0	20.9	2	0.0	2.5	14.8	30 seconds	0.0	5.6	14.6	30 seconds
MPE Exhaust	nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm ⁽¹⁾				nm							
EX-1	nm				nm				nm				nm				nm				0.0				2.8				15.5				2				0.0							
EX-2	nm				nm				nm				nm				nm				10.2				7.8				0.0				2				0.1							
EX-3 ⁽⁷⁾	nm				nm				nm				nm				nm				1.0				0.4				18.4				2				0.1							
EX-4 ⁽⁷⁾	nm				nm				nm				nm				nm				1.0				0.3				18															

Table 4

Methane Monitoring
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Location ID	9/13/2017				11/16/2017				3/22/2018				5/17/2018				9/17/2018				9/19/2018				11/29/2018				3/21/2019				6/5/2019				9/6/2019																																			
	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)	(%vol)	(%vol)	(%vol)	(min)																																				
GP1-12	0.0	12.1	3.9	2	0.0	6.4	9.7	2	0.0	4.0	16.6	1	0.0	5.2	1.6	1	0.0	10.1	5.9	2.0	0.0	14.5	6.3	1.0	0.2	4.2	13.2	1.0	0.0	2.1	14.7	1.0	0.0	4.7	5.2	1.0	0.1	9.5	4.7	1.5	0.0	10.3	4.0	1.0																												
GP2-12	0.0	7.9	13.0	2	0.0	3.2	16.1	2	0.0	2.8	17.9	1	0.0	5.1	5.1	1	0.0	5.0	14.4	1.0	0.0	5.9	15.4	2.0	0.2	3.0	19.4	1.0	0.0	1.4	17.7	1.0	0.0	5.6	11.4	1.0	0.1	4.6	16.1	1.0	0.0	0.0	4.7	17.3	1.0																											
GP3-12	nm ⁽³⁾				0.0				4.4				15.5				nm				0.6				13.9				1.0				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				0.1				7.0				14.6																			
GP4-12	0.0	6.4	17.2	2	0.0	2.8	14.9	2	nm				nm				0.0				4.3				16.4				1.0				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				0.1				4.8				16.8																			
GP5-12	0.0	10.1	0.4	2	0.0	8.1	1.3	2	0.0	5.2	7.0	1	nm				0.0				10.2				0.6				1.0				0.1				14.3				1.0				0.0				5.0				17.1																			
GP6-12	60.8	5.0	0.4	2	41.7	4.0	0.4	2	42.7	3.4	0.0	2	nm				33.3				4.5				0.2				2.0				49.7				5.5				0.1				2.0				58.7				4.1				0.0				54.5				4.0				1.5			
GP7-12	0.0	13.9	16.9	2	0.0	11.7	5.5	2	0.0	3.8	12.0	2	nm				0.1				7.8				7.4				1.0				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				1.4				2.0				14.2				1.0				0.0				9.2				11.6			
GP8-12	0.0	4.0	8.8	2	0.0	0.6	19.9	2	0.0	4.8	13.0	0.33	0.0				4.8				13.0				0.33				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽³⁾				nm ⁽¹⁴⁾				nm ⁽¹⁴⁾																							
MPE Exhaust	nm				nm				nm				nm				nm				nm				nm				nm				nm				nm																																			
EX-1	0.0	1.1	21.7	2	nm				nm				nm				0.1				20.0				1.0				0.1				19.2				1.0				nm				0.0				21.0				1.0				0.0				18.9											
EX-2	1.0	12.0	22.4	2	nm				nm				nm				1.6				24.6				1.0																																															

Table 4

Methane Monitoring
 Quarterly Progress Report #26 (July, August and September 2019)
 Former Dearborn Refining Site
 Dearborn, Michigan

Location ID	9/26/2019			
	CH ₄ (%vol)	CO ₂ (%vol)	O ₂ (%vol)	Purge Time (min)
GP1-12			nm	
GP2-12			nm	
GP3-12	0.0	7.5	12.7	1.5
GP4-12	0.0	7.0	13.8	2.0
GP5-12			nm	
GP6-12			nm	
GP7-12			nm	
GP8-12			nm	
MPE Exhaust			nm	
EX-1			nm	
EX-2			nm	
EX-3 ⁽⁷⁾			nm	
EX-4 ⁽⁷⁾			nm	
EX-5			nm	
EX-6			nm	
EX-7			nm	
EX-8 ⁽⁷⁾			nm	
EX-9			nm	
EX-10 ⁽⁷⁾			nm	
EX-11			nm	
EX-12	0.5	0.1	21.2	2.0
EX-13			nm	
EX-14			nm	
EX-15			nm	
EX-16 ⁽⁷⁾			nm	
EX-17			nm	
EX-18 ⁽⁷⁾			nm	
EX-19			nm	
EX-20			nm	
EX-21 ⁽⁷⁾			nm	
EX-22			nm	
EX-23			nm	
EX-24 ⁽⁷⁾			nm	
EX-25			nm	
EX-26			nm	
EX-27			nm	
EX-28 ⁽⁷⁾			nm	
EX-29			nm	
EX-30 ⁽⁷⁾			nm	
EX-31 ⁽⁷⁾			nm	
EX-32 ⁽⁷⁾			nm	
EX-33 ⁽⁷⁾			nm	
EX-34 ⁽⁷⁾			nm	
EX-35 ⁽⁶⁾⁽⁷⁾			nm	
EX-36 ⁽⁷⁾			nm	
MW1-08			nm	
MW2-08	0.0	11.6	2.5	2.0
MW3R-08 ⁽⁷⁾			nm	
MW4-08			nm	
MW5-08			nm	
MW6-10 ⁽⁷⁾			nm	
MW7-10 ⁽⁷⁾			nm	
MW8-10			nm	
MW9-10			nm	
MW10-10			nm	
MW11-12			nm	
MW13-12			nm	
MW14-12			nm	
MW15-12			nm	
MW16-12			nm	
TW-1			nm	
TW-2			nm	
LNAPL AST			nm	
GV1-15			nm	
GV2-15			nm	
GV3-15			nm	
GV4-15			nm	
GV5-17			nm	
GV6-17			nm	
GV7-17			nm	
GV8-17			nm	
GV9-17			nm	
GV10-17			nm	
GV11-17			nm	

Table 4

Methane Monitoring
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Notes:

- (1) Cleaned, demobilized from Site in April 2015.
- (2) To be monitored during third quarter monitoring event consistent with the Operation, Maintenance, and Monitoring (OMM) Plan.
- (3) Could not be measured due to water present.
- (4) Not included in the OMM Plan. Additional results were presented on Quarterly Progress Report figures.
- (5) Not included in the OMM Plan. Initially monitored on June 10, 2015.
- (6) Valve was closed on June 10, 2015.
- (7) Wind turbines installed on 8/27/15.
- (8) Pump stopped due to flow restriction/water present.
- (9) Gas Vents associated with the Passive Ventilation Trench installed on 12/4/15.
- (10) Broken fitting
- (11) Unable to access due to obstructing object
- (12) Under water
- (13) Unable to access due to debris
- (14) Line Obstructed.

MPE system running in advance of and/or during methane monitoring on 4/26/13, 4/29/13 and 8/30/13

Extraction wells were converted to passive gas vents during the week of 9/8 to 9/12, 2014

nm - not measured on this date

CH₄ - Methane

CO₂ - Carbon dioxide

O₂ - Oxygen

%vol - percent volume

min - minute

Table 5

Annual Groundwater Analytical Results Summary (September 2019)
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location: Sample Identification: Sample Date: Sample Type:	EGLE Generic Groundwater Cleanup Criteria: Nonresidential (1)					MW1-08	MW1-08	MW1-08	MW1-08	MW1-08	MW1-08	MW1-08	MW1-08
	Groundwater Surface Water	Non-Residential Groundwater Volatilization to Interface	Water Solubility	Flammability and Explosivity	Screening Levels	GW-48041-071913-CB-001 7/19/2013	GW-48041-050614-CB-005 5/6/2014	GW-48041-080715-CB-005 8/7/2015	GW-48041-080715-CB-006 8/7/2015	Duplicate	GW-48041-081116-DC-006 8/11/2016	GW-48041-091417-DC-001 9/14/2017	GW-48041-092018-DC-001 9/20/2018
	Units	a b	c	d									
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	89	1300000	1330000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	µg/L	78	77000	2970000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	µg/L	330	110000	4420000	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	µg/L	740	2300000	5060000	380000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	µg/L	130	1300	2250000	97000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	µg/L	99	300000	300000	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NA	1200	1230	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.7	15000	4200000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	µg/L	13	160000	156000	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	µg/L	360	59000	8520000	2500000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	µg/L	230	36000	2800000	550000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	µg/L	28	41000	111000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	µg/L	17	74000	73800	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2200	240000000	240000000	ID	ND(10)UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-Hexanone	µg/L	ID	8700000	16000000	NA	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ID	20000000	20000000	ID	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Acetone	µg/L	1700	1000000000	1000000000	15000000	R	ND(10)U	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Benzene	µg/L	200	35000	1750000	68000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.17 J
Bromodichloromethane	µg/L	ID	37000	6740000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	µg/L	ID	3100000	3100000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl bromide)	µg/L	5	9000	14500000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	µg/L	ID	550000	1190000	13000	ND(5.0)	ND(5.0)U	ND(25)	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	µg/L	38	2400	793000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	µg/L	25	47000	472000	160000	0.19 J	0.18 J	ND(5.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	µg/L	1100	5700000	5740000	110000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	µg/L	350	180000	7920000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl chloride)	µg/L	ID	45000	6340000	36000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	µg/L	620	210000	350000	530000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	µg/L	ID	110000	2600000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	µg/L	ID	300000	300000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	µg/L	18	170000	169000	43000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropyl benzene	µg/L	28	56000	56000	29000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl acetate	µg/L	NA	NA	NA	NA	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl tert butyl ether (MTBE)	µg/L	7100	47000000	46800000	ID	0.18 J	0.18 J	ND(5.0)	ND(5.0)	ND(5.0)	0.23 J	ND(1.0)	ND(1.0)
Methylene chloride	µg/L	1500	1400000	1700000	ID	ND(5.0)	ND(5.0)	ND(25)U	ND(25)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	µg/L	80	31000	31000	140000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	µg/L	60	170000	200000	ID	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	µg/L	270	530000	526000	61000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	µg/L	1500	200000	6300000	230000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	µg/L	200	4900	1100000	ID	ND(1.0)	ND(1.0)	ND(1.					

Table 5

Annual Groundwater Analytical Results Summary (September 2019)
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	MW1-08	MW3R-08	MW3R-08	MW4-08	MW4-08																			
Sample Identification:	GW-048041-091019-PB-004	GW-48041-071913-CB-005	GW-48041-050614-CB-001	GW-48041-080615-CB-003	GW-48041-081116-DC-002	GW-48041-091417-DC-005	GW-48041-092018-DC-004	GW-48041-091019-PB-002	GW-048041-091019-PB-003	GW-48041-091019-CB-002	GW-48041-071913-CB-002	GW-48041-050614-CB-006												
Sample Date:	9/10/2019	7/19/2013	5/6/2014	8/6/2015	8/11/2016	9/14/2017	9/20/2018	9/10/2019	9/10/2019	7/19/2013	5/6/2014													
Sample Type:	Duplicate																							
Units																								
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,1,2,2-Tetrachloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,1,2-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,1-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,1-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2,4-Trichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,2-Dichloropropane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,3-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
1,4-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.28 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	ND(10)	3.1 J	ND(10)	ND(50)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	2.3 J												
2-Hexanone	µg/L	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)												
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)												
Acetone	µg/L	ND(10)	32	ND(10)U	ND(50)	ND(10)	ND(50)	7.6 J	ND(10)	ND(10)	ND(10)	ND(10)U												
Benzene	µg/L	ND(1.0)	ND(1.0)	15	2.0 J	8.3	13	0.15 J	3.2	3.2	ND(1.0)	ND(1.0)												
Bromodichloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Bromoform	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Bromomethane (Methyl bromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Carbon disulfide	µg/L	ND(5.0)	0.32 J	ND(5.0)U	ND(25)	ND(5.0)	ND(25)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)												
Carbon tetrachloride	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Chlorobenzene	µg/L	ND(1.0)	ND(1.0)	2.6	ND(5.0)	1.9	2.4 J	ND(1.0)	0.60 J	0.63 J	ND(1.0)	ND(1.0)												
Chloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Chloroform (Trichloromethane)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Chloromethane (Methyl chloride)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
cis-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	0.37 J	0.35 J	ND(1.0)	ND(1.0)												
cis-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Cyclohexane	µg/L	ND(1.0)	ND(1.0)	14	ND(5.0)	4.7	6.6	ND(1.0)	0.26 J	0.29 J	ND(1.0)	ND(1.0)												
Dibromochloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Dichlorodifluoromethane (CFC-12)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Ethylbenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Isopropyl benzene	µg/L	ND(1.0)	ND(1.0)	7.9	ND(5.0)	1.8	2.0 J	ND(1.0)	0.68 J	0.69 J	ND(1.0)	ND(1.0)												
Methyl acetate	µg/L	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)												
Methyl cyclohexane	µg/L	ND(1.0)	ND(1.0)	12	ND(5.0)	2.3	ND(5.0)	ND(1.0)	0.69 J	0.72 J	ND(1.0)	ND(1.0)												
Methyl tert butyl ether (MTBE)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Methylene chloride	µg/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)U	ND(5.0)	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)												
Styrene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Tetrachloroethylene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Toluene	µg/L	ND(1.0)	0.18 J	0.49 J	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
trans-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
trans-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)												
Trichloroethene	µg																							

Table 5

Annual Groundwater Analytical Results Summary (September 2019)
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	MW4-08	TW-1	TW-1	TW-1	TW-1																	
Sample Identification:	GW-48041-080615-CB-001	GW-48041-081116-DC-001	GW-48041-091417-DC-002	GW-48041-091417-DC-003	GW-48041-092018-DC-002	GW-48041-092018-DC-003	GW-048041-091019-PB-001	GW-48041-071913-CB-006	GW-48041-050614-CB-004	GW-48041-080615-CB-002	GW-48041-081116-DC-005											
Sample Date:	8/6/2015	8/11/2016	9/14/2017	9/14/2017	9/20/2018	9/20/2018	9/10/2019	7/19/2013	5/6/2014	8/6/2015	8/11/2016											
Sample Type:	Duplicate																					
Units																						
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,1,2,2-Tetrachloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,1,2-Trichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,1-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,1-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,2,4-Trichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,2-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.24 J	ND(5.0)	0.66 J											
1,2-Dichloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,2-Dichloropropane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,3-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
1,4-Dichlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.46 J	ND(5.0)	0.97 J											
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.54 J	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	0.80 J	1.1 J	ND(50)											
2-Hexanone	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)											
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)											
Acetone	µg/L	ND(10)U	ND(10)	ND(10)U	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)U	ND(10)											
Benzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.9	3.1	8.1											
Bromodichloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Bromoform	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Bromomethane (Methyl bromide)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Carbon disulfide	µg/L	ND(5.0)	ND(5.0)	ND(5.0)U	ND(5.0)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)	ND(5.0)											
Carbon tetrachloride	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Chlorobenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.1	1.8	3.6 J											
Chloroethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.60 J	ND(5.0)	0.51 J											
Chloroform (Trichloromethane)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Chloromethane (Methyl chloride)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
cis-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
cis-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Cyclohexane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.7	2.7	ND(5.0)											
Dibromochloromethane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Dichlorodifluoromethane (CFC-12)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Ethylbenzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Isopropyl benzene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.8	1.8	ND(5.0)											
Methyl acetate	µg/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)											
Methyl cyclohexane	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	4.3	2.5	1.9											
Methyl tert butyl ether (MTBE)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.44 J	ND(1.0)	ND(5.0)											
Methylene chloride	µg/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)U	ND(5.0)											
Styrene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.62 J	ND(1.0)	ND(5.0)											
Tetrachloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Toluene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.58 J	0.36 J	ND(5.0)											
trans-1,2-Dichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
trans-1,3-Dichloropropene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Trichloroethene	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Trichlorofluoromethane (CFC-11)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Trifluorotrichloroethane (CFC-113)	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Vinyl chloride	µg/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)											
Xylenes (total)	µg/L	ND(2.0)	ND(2.0)																			

Table 5

Annual Groundwater Analytical Results Summary (September 2019)
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	TW-1	TW-1	TW-1	TW-2																						
Sample Identification:	GW-48041-091417-DC-004	GW-48041-092018-DC-006	GW-048041-091019-PB-005	GW-48041-071913-CB-003	GW-48041-071913-CB-004	GW-48041-050614-CB-002	GW-48041-050614-CB-003	GW-48041-050614-CB-004	GW-48041-080715-CB-004	GW-48041-080715-CB-004	GW-48041-081116-DC-003	GW-48041-081116-DC-004	GW-48041-091417-DC-006													
Sample Date:	9/14/2017	9/20/2018	9/10/2019	7/19/2013	7/19/2013	5/6/2014	5/6/2014	8/7/2015	8/7/2015	8/11/2016	8/11/2016	8/11/2016	9/14/2017													
Sample Type:	Duplicate																									
Units																										
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,1,2,2-Tetrachloroethane	µg/L	ND(5.0)	ND(1.0)	0.15 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,1,2-Trichloroethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,1-Dichloroethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,1-Dichloroethene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,2,4-Trichlorobenzene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(5.0)	ND(1.0)	1.9	0.61 J	0.45 J	0.45 J	1.2	1.4	2.4 J	2.3	2.4	ND(10)													
1,2-Dichlorobenzene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,2-Dichloroethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,2-Dichloropropane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
1,3-Dichlorobenzene	µg/L	ND(5.0)	0.16 J	0.16 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.25 J	0.22 J	ND(10)													
1,4-Dichlorobenzene	µg/L	1.2 J	0.69 J	0.73 J	ND(1.0)	ND(1.0)	0.16 J	0.23 J	ND(5.0)	0.98 J	0.94 J	0.94 J	ND(10)													
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	ND(50)	ND(10)	ND(10)	0.90 J	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	1.0 J	1.5 J	ND(100)													
2-Hexanone	µg/L	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(100)													
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	1.1 J	1.1 J	ND(100)													
Acetone	µg/L	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(100)													
Benzene	µg/L	9.8	1.5	2.6	2.4	2.4	4.2	5.5	3.7 J	4.7	5.4	5.4	ND(10)													
Bromodichloromethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Bromoform	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Bromomethane (Methyl bromide)	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Carbon disulfide	µg/L	ND(25)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)U	ND(5.0)U	ND(25)	0.65 J	0.56 J	ND(50)U														
Carbon tetrachloride	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Chlorobenzene	µg/L	4.7 J	0.44 J	2.3	0.15 J	0.16 J	0.65 J	0.79 J	ND(5.0)	0.99 J	0.70 J	0.70 J	ND(10)													
Chloroethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	0.29 J	0.29 J	0.50 J	0.71 J	ND(5.0)	0.59 J	0.81 J	0.81 J	ND(10)													
Chloroform (Trichloromethane)	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Chloromethane (Methyl chloride)	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
cis-1,2-Dichloroethene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	0.28 J	ND(1.0)	ND(1.0)	ND(10)													
cis-1,3-Dichloropropene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Cyclohexane	µg/L	ND(5.0)	ND(1.0)	0.76 J	0.79 J	0.87 J	ND(1.0)UJ	8.0 J	5.8	ND(1.0)	1.4	ND(10)														
Dibromochloromethane	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Dichlorodifluoromethane (CFC-12)	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Ethylbenzene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.19 J	0.25 J	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
Isopropyl benzene	µg/L	1.6 J	0.49 J	1.1	0.57 J	0.55 J	1.6	2.3	ND(5.0)	1.6	1.6	ND(10)														
Methyl acetate	µg/L	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	ND(10)	ND(10)	ND(100)													
Methyl cyclohexane	µg/L	ND(5.0)	ND(1.0)	0.91 J	0.31 J	0.32 J	1.1 J	2.2 J	ND(5.0)	0.78 J	0.95 J	0.95 J	ND(10)													
Methyl tert butyl ether (MTBE)	µg/L	ND(5.0)	ND(1.0)	0.54 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
Methylene chloride	µg/L	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(25)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(50)													
Styrene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(10)													
Tetrachloroethene	µg/L	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)													
T																										

Table 5

Annual Groundwater Analytical Results Summary (September 2019)
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	TW-2	
Sample Identification:	GW-48041-092018-DC-005	
Sample Date:	9/20/2018	
Sample Type:	Units	
Volatile Organic Compounds (VOCs)		
1,1,1-Trichloroethane	µg/L	ND(1.0)
1,1,2,2-Tetrachloroethane	µg/L	ND(1.0)
1,1,2-Trichloroethane	µg/L	ND(1.0)
1,1-Dichloroethane	µg/L	ND(1.0)
1,1-Dichloroethene	µg/L	ND(1.0)
1,2,4-Trichlorobenzene	µg/L	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND(1.0)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND(1.0)
1,2-Dichlorobenzene	µg/L	0.32 J
1,2-Dichloroethane	µg/L	ND(1.0)
1,2-Dichloropropane	µg/L	ND(1.0)
1,3-Dichlorobenzene	µg/L	ND(1.0)
1,4-Dichlorobenzene	µg/L	0.59 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 J
2-Hexanone	µg/L	0.64 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND(10)
Acetone	µg/L	11
Benzene	µg/L	0.47 J
Bromodichloromethane	µg/L	ND(1.0)
Bromoform	µg/L	ND(1.0)
Bromomethane (Methyl bromide)	µg/L	ND(1.0)
Carbon disulfide	µg/L	ND(5.0)
Carbon tetrachloride	µg/L	ND(1.0)
Chlorobenzene	µg/L	0.48 J
Chloroethane	µg/L	ND(1.0)
Chloroform (Trichloromethane)	µg/L	ND(1.0)
Chlormethane (Methyl chloride)	µg/L	ND(1.0)
cis-1,2-Dichloroethene	µg/L	ND(1.0)
cis-1,3-Dichloropropene	µg/L	ND(1.0)
Cyclohexane	µg/L	0.36 J
Dibromochloromethane	µg/L	ND(1.0)
Dichlorodifluoromethane (CFC-12)	µg/L	ND(1.0)
Ethylbenzene	µg/L	ND(1.0)
Isopropyl benzene	µg/L	0.34 J
Methyl acetate	µg/L	ND(10)
Methyl cyclohexane	µg/L	ND(1.0)
Methyl tert butyl ether (MTBE)	µg/L	ND(1.0)
Methylene chloride	µg/L	ND(5.0)
Styrene	µg/L	ND(1.0)
Tetrachloroethene	µg/L	ND(1.0)
Toluene	µg/L	0.17 J
trans-1,2-Dichloroethene	µg/L	ND(1.0)
trans-1,3-Dichloropropene	µg/L	ND(1.0)
Trichloroethene	µg/L	ND(1.0)
Trichlorofluoromethane (CFC-11)	µg/L	ND(1.0)
Trifluorotrichloroethane (CFC-113)	µg/L	ND(1.0)
Vinyl chloride	µg/L	ND(1.0)
Xylenes (total)	µg/L	0.44 J

Notes:

(1) EGLE Generic groundwater cleanup criteria,
 administrative rule R 299.44 effective December 30, 2013,
 pursuant to Part 201 of 1994 PA 451 as amended
 (Part 201 Groundwater Criteria).

EGLE - Michigan Department of Environment, Great Lakes and Energy
 µg/L - micrograms per liter.

NA - Not available.

ND () - Not detected at the associated reporting limit.

ND () U - The analyte was analyzed for, but was qualified
 as not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

J - Estimated concentration.

R - Rejected.

ID - insufficient data to develop criterion.

Non-Residential Drinking Water Criteria do not apply to the
 Site because of the executed groundwater drinking water restriction.

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location: Sample Identification: Sample Date: Sample Type:	MDEQ MSSLs ⁽¹⁾ Soil Vapor (Including Subslab)					EX-11	EX-11	EX-11	EX-24	
	Residential RIASL	Residential TSRIASL	NonResidential RIASL	NonResidential RIASL ₁₂	NonResidential TSRIASL ₁₂	GE-48041-081216-DC-006	SG-48041-091918-DC-004	SG-048041-090919-PB-002	GE-48041-080615-CB-004	
	Units	a	b	c	d	e	8/12/2016	9/19/2018	9/9/2019	8/6/2015
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/m ³	170000	170000	230000	230000	230000	ND(110)	ND(47)	ND(11)	ND(40)
1,1,2,2-Tetrachloroethane	µg/m ³						ND(190)	ND(80)	ND(14)	ND(67)
1,1,2-Trichloroethane	µg/m ³						ND(150)	ND(63)	ND(11)	ND(53)
1,1-Dichloroethane	µg/m ³	530	5300	1200	2500	25000	34 J	31 J	79	420 J
1,1-Dichloroethene	µg/m ³	7000	21000	10000	20000	61000	ND(220)	ND(92)	1.3 J	ND(77)
1,2,4-Trichlorobenzene	µg/m ³	70	210	100	200	610	ND(1000)	ND(430)	ND(74)	ND(360)
1,2,4-Trimethylbenzene	µg/m ³	2100	6300	3100	6100	18000	ND(270)	ND(110)	74	41 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m ³						ND(420)	ND(180)	ND(15)	ND(150)
1,2-Dichlorobenzene	µg/m ³						ND(160)	ND(70)	6.6 J	ND(59)
1,2-Dichloroethane	µg/m ³						ND(220)	ND(94)	ND(8.1)	ND(79)
1,2-Dichloropropane	µg/m ³						ND(130)	ND(54)	ND(9.2)	ND(45)
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m ³						ND(190)	ND(81)	ND(14)	ND(68)
1,3,5-Trimethylbenzene	µg/m ³	2100	6300	3100	6100	18000	ND(130)	ND(57)	11	22 J
1,3-Dichlorobenzene	µg/m ³	100	310	150	310	920	ND(160)	ND(70)	ND(12)	ND(59)
1,4-Dichlorobenzene	µg/m ³	220	2200	510	1000	10000	ND(160)	ND(70)	10 J	35 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m ³						6300	860	320	890 J
2-Hexanone	µg/m ³						ND(110)	ND(48)	ND(16)	ND(40)
4-Ethyl toluene	µg/m ³						ND(130)	27 J	86	67 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m ³						ND(110)	ND(48)	ND(41)	ND(40)
Acetone	µg/m ³	1000000	1000000	1000000	1000000	1000000	1400	620	890	980 J
Benzene	µg/m ³	110	630	260	510	1800	ND(88)	96	490 ^{ac}	730 J ^{abcd}
Benzyl chloride	µg/m ³						ND(280)	ND(120)	ND(21)	ND(100)
Bromodichloromethane	µg/m ³						ND(140)	ND(58)	ND(13)	ND(49)
Bromoform	µg/m ³						ND(280)	ND(120)	ND(21)	ND(100)
Bromomethane (Methyl bromide)	µg/m ³						ND(210)	ND(90)	ND(7.8)	ND(76)
Carbon disulfide	µg/m ³						42 J	ND(72)U	19	ND(61)
Carbon tetrachloride	µg/m ³						ND(340)	ND(150)	ND(13)	ND(120)
Chlorobenzene	µg/m ³	1700	5200	2600	5100	15000	ND(95)	17 J	41	ND(34)
Chloroethane	µg/m ³	140000	420000	200000	410000	1200000	ND(140)	ND(61)	52	270 J
Chloroform (Trichloromethane)	µg/m ³	37	370	87	170	1700	ND(100)	ND(42)	ND(9.8)	ND(36)
Chloromethane (Methyl chloride)	µg/m ³	3100	9400	4600	9200	14000	ND(110)	ND(48)	6.9 J	ND(40)
cis-1,2-Dichloroethene	µg/m ³	280	830	410	820	2500	ND(110)	ND(46)	48	31 J
cis-1,3-Dichloropropene	µg/m ³						ND(120)	ND(53)	ND(18)	ND(44)
Dibromochloromethane	µg/m ³						ND(230)	ND(99)	ND(17)	ND(83)
Dichlorodifluoromethane (CFC-12)	µg/m ³						ND(140)	ND(57)	ND(9.9)	ND(48)
Ethylbenzene	µg/m ³	340	3400	800	1600	16000	ND(120)	13 J	95	170 J
Hexachlorobutadiene	µg/m ³						ND(1500)	ND(620)	ND(110)	ND(520)
m&p-Xylenes	µg/m ³						ND(240)	48 J	240	220 J

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	MDEQ MSSLs ⁽¹⁾					EX-11 GE-48041-081216-DC-006	EX-11 SG-48041-091918-DC-004	EX-11 SG-048041-090919-PB-002	EX-24 GE-48041-080615-CB-004				
	Soil Vapor (Including Subslab)												
	Residential RIASL	Residential TSRIASL	NonResidential RIASL	NonResidential RIASL ₁₂	NonResidential TSRIASL ₁₂								
Sample Identification:	Units	a	b	c	d	8/12/2016	9/19/2018	9/9/2019	8/6/2015				
Sample Date:													
Sample Type:													
Volatile Organic Compounds (VOCs)													
Methylene chloride	µg/m ³	21000	33000	31000	61000	97000	ND(95)	ND(40)	ND(35)				
o-Xylene	µg/m ³						ND(120)	54	270				
Tetrachloroethene	µg/m ³	1400	1400	1400	2700	2700	ND(190)	ND(79)	11 J				
Toluene	µg/m ³	170000	250000	250000	250000	250000	ND(100)	23 J	120				
trans-1,2-Dichloroethene	µg/m ³	9000	26000	26000	26000	26000	ND(110)	ND(46)	17				
trans-1,3-Dichloropropene	µg/m ³						ND(120)	ND(53)	ND(9.1)				
Trichloroethene	µg/m ³	67	200	67	130	400	ND(150)	20 J	51				
Trichlorofluoromethane (CFC-11)	µg/m ³						ND(150)	ND(65)	ND(11)				
Trifluorotrichloroethane (CFC-113)	µg/m ³						ND(210)	ND(89)	ND(15)				
Vinyl acetate	µg/m ³	7000	21000	10000	20000	61000	ND(190)	ND(82)	ND(35)				
Vinyl chloride	µg/m ³	54	540	450	910	9100	ND(70)	ND(30)	37				
									89 J ^a				

Notes:

ND() Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

(1) MDEQ Media-Specific Volatilization to Indoor Air Interim Action Screening Levels (MSSLs), August 2017.

RIASL - Recommended Interim Action Screening Levels .

RIASL₁₂ - Recommended Interim Action Screening Levels for exposures less than 12 hours.TSRIASL₁₂ - Time Sensitive Recommended Interim Action Screening Levels.

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP1-12	GP1-12						
Sample Identification:	GE-48041-050514-CB-001	GE-48041-080615-CB-001	GE-48041-081216-DC-001	GE-48041-091417-DC-001	GE-48041-091417-DC-002	SG-48041-091918-DC-001	SG-048041-090919-PB-005	SG-048041-090919-PB-006
Sample Date:	5/5/2014	8/6/2015	8/12/2016	9/14/2017	9/14/2017	9/19/2018	9/9/2019	9/9/2019
Sample Type:				Duplicate				Duplicate
Units								
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	µg/m³	ND(8.2)	ND(40)	5.5 J	4.4 J	4.0 J	5.3 J	3.8 J
1,1,2,2-Tetrachloroethane	µg/m³	ND(14)	ND(66)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)
1,1,2-Trichloroethane	µg/m³	ND(11)	ND(53)	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)
1,1-Dichloroethane	µg/m³	ND(6.1)	8.7 J	3.2 J	ND(6.1)	ND(6.1)	ND(6.1)	ND(8.1)
1,1-Dichloroethene	µg/m³	ND(16)	ND(77)	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.9)
1,2,4-Trichlorobenzene	µg/m³	ND(74)	ND(360)	ND(74)	ND(74)	ND(74)	ND(74)	ND(74)
1,2,4-Trimethylbenzene	µg/m³	ND(20)	20 J	ND(20)	ND(20)	ND(20)	ND(20)	ND(9.8)
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	ND(31)	ND(150)	ND(31)	ND(31)	ND(31)	ND(31)	ND(15)
1,2-Dichlorobenzene	µg/m³	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)	ND(12)	ND(24)
1,2-Dichloroethane	µg/m³	ND(16)	40 J	ND(16)	ND(16)	ND(16)	ND(16)	ND(8.1)
1,2-Dichloropropane	µg/m³	ND(9.2)	ND(45)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	ND(14)	ND(68)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)
1,3,5-Trimethylbenzene	µg/m³	ND(9.8)	ND(48)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)
1,3-Dichlorobenzene	µg/m³	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)
1,4-Dichlorobenzene	µg/m³	ND(12)	ND(58)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	ND(12)	ND(57)	ND(12)	ND(12)	ND(12)	ND(12)	ND(29)
2-Hexanone	µg/m³	ND(8.2)	ND(40)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(16)
4-Ethyl toluene	µg/m³	ND(9.8)	ND(48)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(20)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	ND(8.2)	ND(40)	ND(8.2)	ND(8.2)	ND(8.2)	ND(41)	ND(41)
Acetone	µg/m³	57	90 J	17 J	6.9 J	8.5 J	19 J	ND(180)
Benzene	µg/m³	ND(6.4)	120 ^a	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)
Benzyl chloride	µg/m³	ND(21)	ND(100)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)
Bromodichloromethane	µg/m³	ND(10)	ND(49)	ND(10)	ND(10)	ND(10)	ND(10)	ND(13)
Bromoform	µg/m³	ND(21)	ND(100)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)
Bromomethane (Methyl bromide)	µg/m³	ND(16)	ND(75)	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.8)
Carbon disulfide	µg/m³	ND(12)	ND(60)	ND(12)	ND(12)	5.8 J	ND(12)U	ND(12)
Carbon tetrachloride	µg/m³	ND(25)	ND(120)	ND(25)	ND(25)	ND(25)	ND(25)	ND(13)
Chlorobenzene	µg/m³	ND(6.9)	ND(33)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(9.2)
Chloroethane	µg/m³	ND(11)	ND(51)	ND(11)	ND(11)	ND(11)	ND(11)	ND(5.3)
Chloroform (Trichloromethane)	µg/m³	ND(7.3)	ND(35)	4.6 J	9.5	9.7	11	6.5 J
Chloromethane (Methyl chloride)	µg/m³	ND(8.3)	ND(40)	ND(8.3)	ND(8.3)	ND(8.3)	ND(8.3)	ND(21)
cis-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(38)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)
cis-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(44)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(18)
Dibromochloromethane	µg/m³	ND(17)	ND(82)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)
Dichlorodifluoromethane (CFC-12)	µg/m³	5.8 J	ND(48)	ND(9.9)	3.8 J	3.7 J	3.7 J	4.2 J
Ethylbenzene	µg/m³	ND(8.7)	ND(42)	ND(8.7)	ND(8.7)	ND(8.7)	ND(8.7)	ND(8.7)
Hexachlorobutadiene	µg/m³	ND(110)	ND(520)	ND(110)	ND(110)	ND(110)	ND(110)	ND(110)
m&p-Xylenes	µg/m³	ND(17)	ND(84)U	5.1 J	ND(17)	ND(17)	ND(17)	5.8 J

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP1-12	GP1-12						
Sample Identification:	GE-48041-050514-CB-001	GE-48041-080615-CB-001	GE-48041-081216-DC-001	GE-48041-091417-DC-001	GE-48041-091417-DC-002	SG-48041-091918-DC-001	SG-048041-090919-PB-005	SG-048041-090919-PB-006
Sample Date:	5/5/2014	8/6/2015	8/12/2016	9/14/2017	9/14/2017	9/19/2018	9/9/2019	9/9/2019
Sample Type:				Duplicate				Duplicate
Units								
Volatile Organic Compounds (VOCs)								
Methylene chloride	µg/m³	ND(6.9)	ND(34)	ND(6.9)	ND(6.9)	ND(6.9)	ND(35)	ND(35)
o-Xylene	µg/m³	ND(8.7)	ND(42)U	ND(8.7)	ND(8.7)	ND(8.7)	ND(8.7)	ND(8.7)
Tetrachloroethene	µg/m³	4.8 J	31 J	31	37	37	28	26
Toluene	µg/m³	2.0 J	9.6 J	2.9 J	ND(7.5)	ND(7.5)	ND(7.5)	ND(38)
trans-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(38)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)
trans-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(44)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)
Trichloroethene	µg/m³	2.9 J	20 J	22	22	23	18	14
Trichlorofluoromethane (CFC-11)	µg/m³	ND(11)	ND(54)	16	17	17	20	15
Trifluorotrichloroethane (CFC-113)	µg/m³	ND(15)	ND(74)	ND(15)	ND(15)	ND(15)	ND(15)	ND(15)
Vinyl acetate	µg/m³	ND(14)	ND(68)	ND(14)	ND(14)	ND(14)	ND(14)	ND(35)
Vinyl chloride	µg/m³	ND(5.1)	ND(25)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(10)

Notes:

ND() Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

(1) MDEQ Media-Specific Volatilization to Indoor Air Interim Action Screening Levels (MSSLs), August 2017.

RIASL - Recommended Interim Action Screening Levels .

RIASL₁₂ - Recommended Interim Action Screening Levels for exposures less than 12 hours.TSRIASL₁₂ - Time Sensitive Recommended Interim Action Screening Levels.

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP3-12	GP3-12	GP3-12	GP3-12	GP3-12	GP3-12	GP4-12							
Sample Identification:	GE-48041-050614-CB-004	GE-48041-050614-CB-005	GE-48041-080615-CB-002	GE-48041-081216-DC-002	GE-48041-091417-DC-003	SG-048041-090919-PB-004	GE-48041-091417-DC-004							
Sample Date:	5/6/2014	5/6/2014	8/6/2015	8/12/2016	9/14/2017	9/9/2019	9/14/2017							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/m³	ND(8.2)	ND(8.2)	ND(41)	ND(35)	ND(16)	ND(11)							
1,1,2,2-Tetrachloroethane	µg/m³	ND(14)	ND(14)	ND(69)	ND(59)	ND(27)	ND(14)							
1,1,2-Trichloroethane	µg/m³	ND(11)	ND(11)	ND(55)	ND(47)	ND(21)	ND(11)							
1,1-Dichloroethane	µg/m³	ND(6.1)	ND(6.1)	ND(30)	ND(26)	ND(12)	ND(8.1)							
1,1-Dichloroethene	µg/m³	ND(16)	ND(16)	ND(79)	ND(69)	ND(31)	ND(7.9)							
1,2,4-Trichlorobenzene	µg/m³	ND(74)	ND(74)	ND(370)	ND(320)	ND(140)	ND(74)							
1,2,4-Trimethylbenzene	µg/m³	ND(20)	ND(20)	29 J	ND(85)	ND(38)	ND(9.8)							
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	ND(31)	ND(31)	ND(150)	ND(130)	ND(60)	ND(15)							
1,2-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(60)	ND(52)	ND(23)	ND(24)							
1,2-Dichloroethane	µg/m³	ND(16)	ND(16)	ND(81)	ND(70)	ND(32)	ND(8.1)							
1,2-Dichloropropane	µg/m³	ND(9.2)	ND(9.2)	ND(46)	ND(40)	ND(18)	ND(9.2)							
1,2-Dichlortetrafluoroethane (CFC 114)	µg/m³	ND(14)	ND(14)	ND(70)	ND(60)	ND(27)	ND(14)							
1,3,5-Trimethylbenzene	µg/m³	ND(9.8)	ND(9.8)	ND(49)	ND(42)	ND(19)	ND(9.8)							
1,3-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(60)	ND(52)	ND(23)	ND(12)							
1,4-Dichlorobenzene	µg/m³	ND(12)	14	29 J	ND(52)	ND(23)	ND(12)							
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	ND(12)	ND(12)	23 J	69	68	34							
2-Hexanone	µg/m³	ND(8.2)	ND(8.2)	ND(41)	ND(35)	ND(16)	ND(16)							
4-Ethyl toluene	µg/m³	ND(9.8)	ND(9.8)	ND(49)	ND(42)	ND(19)	ND(20)							
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	ND(8.2)	ND(8.2)	150	35	5.7 J	ND(41)							
Acetone	µg/m³	190	160	1000	1000	760	300							
Benzene	µg/m³	ND(6.4)	1.4 J	ND(32)	ND(28)	ND(12)	ND(6.4)							
Benzyl chloride	µg/m³	ND(21)	ND(21)	ND(100)	ND(89)	ND(40)	ND(21)							
Bromodichloromethane	µg/m³	ND(10)	ND(10)	ND(50)	ND(43)	ND(20)	ND(13)							
Bromoform	µg/m³	ND(21)	ND(21)	ND(100)	ND(89)	ND(40)	ND(21)							
Bromomethane (Methyl bromide)	µg/m³	ND(16)	ND(16)	ND(78)	ND(67)	ND(30)	ND(7.8)							
Carbon disulfide	µg/m³	4.5 J	ND(12)	ND(62)	ND(54)	ND(24)	0.99 J							
Carbon tetrachloride	µg/m³	ND(25)	ND(25)	ND(130)	ND(110)	ND(49)	ND(13)							
Chlorobenzene	µg/m³	ND(6.9)	ND(6.9)	ND(35)	ND(30)	ND(13)	ND(9.2)							
Chloroethane	µg/m³	ND(11)	ND(11)	ND(53)	ND(46)	ND(21)	ND(5.3)							
Chloroform (Trichloromethane)	µg/m³	ND(7.3)	ND(7.3)	ND(37)	ND(32)	ND(14)	ND(9.8)							
Chloromethane (Methyl chloride)	µg/m³	2.7 J	2.2 J	ND(41)	ND(36)	ND(16)	ND(21)							
cis-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(7.9)	ND(40)	ND(34)	ND(15)	ND(7.9)							
cis-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(9.1)	ND(45)	ND(39)	ND(18)	ND(18)							
Dibromochloromethane	µg/m³	ND(17)	ND(17)	ND(85)	ND(74)	ND(33)	ND(17)							
Dichlorodifluoromethane (CFC-12)	µg/m³	ND(9.9)	3.7 J	ND(49)	ND(43)	ND(19)	ND(9.9)							
Ethylbenzene	µg/m³	ND(8.7)	ND(8.7)	ND(43)	ND(38)	ND(17)	ND(8.7)							
Hexachlorobutadiene	µg/m³	ND(110)	ND(110)	ND(530)	ND(460)	ND(210)	ND(110)							
m&p-Xylenes	µg/m³	3.1 J	4.6 J	ND(87)U	ND(75)	ND(34)	ND(8.7)							

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP3-12	GP3-12	GP3-12	GP3-12	GP3-12	GP3-12	GP4-12							
Sample Identification:	GE-48041-050614-CB-004	GE-48041-050614-CB-005	GE-48041-080615-CB-002	GE-48041-081216-DC-002	GE-48041-091417-DC-003	SG-048041-090919-PB-004	GE-48041-091417-DC-004							
Sample Date:	5/6/2014	5/6/2014	8/6/2015	8/12/2016	9/14/2017	9/9/2019	9/14/2017							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
Methylene chloride	µg/m ³	2.9 J	3.9 J	ND(35)	ND(30)	ND(14)	ND(35)							
o-Xylene	µg/m ³	ND(8.7)	ND(8.7)	ND(43)U	ND(38)	ND(17)	ND(8.7)							
Tetrachloroethene	µg/m ³	ND(14)	ND(14)	64 J	69	91	47							
Toluene	µg/m ³	130 J	310 J	ND(38)	ND(33)	ND(15)	ND(38)							
trans-1,2-Dichloroethene	µg/m ³	ND(7.9)	ND(7.9)	ND(40)	ND(34)	ND(15)	ND(7.9)							
trans-1,3-Dichloropropene	µg/m ³	ND(9.1)	ND(9.1)	ND(45)	ND(39)	ND(18)	ND(9.1)							
Trichloroethene	µg/m ³	ND(11)	ND(11)	19 J	26 J	26	14							
Trichlorofluoromethane (CFC-11)	µg/m ³	ND(11)	ND(11)	ND(56)	ND(49)	12 J	8.6 J							
Trifluorotrichloroethane (CFC-113)	µg/m ³	ND(15)	ND(15)	ND(77)	ND(66)	ND(30)	ND(15)							
Vinyl acetate	µg/m ³	ND(14)	ND(14)	ND(70)	ND(61)	ND(27)	ND(35)							
Vinyl chloride	µg/m ³	ND(5.1)	ND(5.1)	ND(26)	ND(22)	ND(10)	ND(10)							

Notes:

ND() Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

(1) MDEQ Media-Specific Volatilization to Indoor Air Interim Action Screening Levels (MSSLs), August 2017.

RIASL - Recommended Interim Action Screening Levels .

RIASL₁₂ - Recommended Interim Action Screening Levels for exposures less than 12 hours.TSRIASL₁₂ - Time Sensitive Recommended Interim Action Screening Levels.

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP4-12	GP4-12	GP5-12	GP5-12	GP5-12	GP5-12	GP5-12							
Sample Identification:	SG-48041-091918-DC-002	SG-48041-091918-DC-003	GE-48041-050614-CB-003	GE-48041-080615-CB-003	GE-48041-081216-DC-003	GE-48041-081216-DC-004	SG-048041-090919-PB-003							
Sample Date:	9/19/2018	9/19/2018	5/6/2014	8/6/2015	8/12/2016	8/12/2016	9/9/2019							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)							
1,1,2,2-Tetrachloroethane	µg/m³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)							
1,1,2-Trichloroethane	µg/m³	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)							
1,1-Dichloroethane	µg/m³	ND(6.1)	ND(6.1)	ND(6.1)	2.0 J	3.0 J	3.1 J							
1,1-Dichloroethene	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.9)							
1,2,4-Trichlorobenzene	µg/m³	ND(74)	ND(74)	ND(74)	ND(74)	ND(74)	ND(74)							
1,2,4-Trimethylbenzene	µg/m³	ND(20)	ND(20)	ND(20)	24	ND(20)	ND(20)							
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	ND(31)	ND(31)	ND(31)	ND(31)	ND(31)	ND(31)							
1,2-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)							
1,2-Dichloroethane	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(8.1)							
1,2-Dichloropropane	µg/m³	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)							
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)							
1,3,5-Trimethylbenzene	µg/m³	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)U	ND(9.8)	ND(9.8)							
1,3-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)							
1,4-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(12)	28	ND(12)	ND(12)							
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	ND(12)	3.3 J	10 J	3.2 J	ND(12)	ND(12)							
2-Hexanone	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)							
4-Ethyl toluene	µg/m³	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(20)							
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(41)							
Acetone	µg/m³	ND(24)	16 J	150	200	8.5 J	11 J							
Benzene	µg/m³	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)	ND(6.4)							
Benzyl chloride	µg/m³	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)							
Bromodichloromethane	µg/m³	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(13)							
Bromoform	µg/m³	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)							
Bromomethane (Methyl bromide)	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.8)							
Carbon disulfide	µg/m³	ND(12)U	ND(12)U	ND(12)	ND(12)	ND(12)	ND(12)							
Carbon tetrachloride	µg/m³	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(13)							
Chlorobenzene	µg/m³	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(9.2)							
Chloroethane	µg/m³	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)	ND(5.3)							
Chloroform (Trichloromethane)	µg/m³	ND(7.3)	ND(7.3)	ND(7.3)	ND(7.3)	ND(7.3)	ND(9.8)							
Chloromethane (Methyl chloride)	µg/m³	ND(8.3)	ND(8.3)	ND(8.3)	ND(8.3)	ND(8.3)	ND(21)							
cis-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(7.9)	ND(7.9)	2.6 J	4.8 J	5.0 J							
cis-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(18)							
Dibromochloromethane	µg/m³	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)							
Dichlorodifluoromethane (CFC-12)	µg/m³	ND(9.9)	ND(9.9)	10	8.0 J	11	11							
Ethylbenzene	µg/m³	ND(8.7)	ND(8.7)	ND(8.7)	4.1 J	ND(8.7)	ND(8.7)							
Hexachlorobutadiene	µg/m³	ND(110)	ND(110)	ND(110)	ND(110)	ND(110)	ND(110)							
m&p-Xylenes	µg/m³	ND(17)	ND(17)	4.2 J	23	2.8 J	2.8 J							

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP4-12	GP4-12	GP5-12	GP5-12	GP5-12	GP5-12	GP5-12							
Sample Identification:	SG-48041-091918-DC-002	SG-48041-091918-DC-003	GE-48041-050614-CB-003	GE-48041-080615-CB-003	GE-48041-081216-DC-003	GE-48041-081216-DC-004	SG-048041-090919-PB-003							
Sample Date:	9/19/2018	9/19/2018	5/6/2014	8/6/2015	8/12/2016	8/12/2016	9/9/2019							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
Methylene chloride	µg/m³	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(35)							
o-Xylene	µg/m³	ND(8.7)	ND(8.7)	ND(8.7)	ND(9.7)U	ND(8.7)	2.9 J							
Tetrachloroethene	µg/m³	ND(14)	ND(14)	5.1 J	9.3 J	17	15							
Toluene	µg/m³	ND(7.5)	ND(7.5)	8.5	3.0 J	ND(7.5)	5.3 J							
trans-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)							
trans-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)							
Trichloroethene	µg/m³	ND(11)	ND(11)	29	54	77^{ac}	80^{ac}							
Trichlorofluoromethane (CFC-11)	µg/m³	8.9 J	9.4 J	ND(11)	ND(11)	ND(11)	ND(11)							
Trifluorotrichloroethane (CFC-113)	µg/m³	ND(15)	ND(15)	ND(15)	ND(15)	ND(15)	ND(15)							
Vinyl acetate	µg/m³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(35)							
Vinyl chloride	µg/m³	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(10)							

Notes:

- ND() Not detected at the associated reporting limit.
- U Not detected at the associated reporting limit.
- J Estimated concentration.
- (1) MDEQ Media-Specific Volatilization to Indoor Air Interim Action Screening Levels (MSSLs), August 2017.
 - RIASL - Recommended Interim Action Screening Levels .
 - RIASL₁₂ - Recommended Interim Action Screening Levels for exposures less than 12 hours.
 - TSRIASL₁₂ - Time Sensitive Recommended Interim Action Screening Levels.

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	MW6-10							
Sample Identification:	GE-48041-050514-CB-002	GE-48041-080615-CB-005	GE-48041-080615-CB-006	GE-48041-081216-DC-005	GE-48041-091417-DC-005	SG-048041-090919-PB-001	GE-48041-091417-DC-006							
Sample Date:	5/5/2014	8/6/2015	8/6/2015	8/12/2016	9/14/2017	9/9/2019	9/14/2017							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(11)	ND(8.2)							
1,1,2,2-Tetrachloroethane	µg/m³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)							
1,1,2-Trichloroethane	µg/m³	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)							
1,1-Dichloroethane	µg/m³	ND(6.1)	4.3 J	4.3 J	3.0 J	2.4 J	1.4 J							
1,1-Dichloroethene	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.9)	ND(16)							
1,2,4-Trichlorobenzene	µg/m³	ND(74)	ND(74)	ND(74)	ND(74)	ND(74)	ND(74)							
1,2,4-Trimethylbenzene	µg/m³	ND(20)	5.6 J	4.9 J	ND(20)	ND(20)	ND(9.8) 45							
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	ND(31)	ND(31)	ND(31)	ND(31)	ND(31)	ND(15) ND(31)							
1,2-Dichlorobenzene	µg/m³	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	ND(24) ND(12)							
1,2-Dichloroethane	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(8.1) ND(16)							
1,2-Dichloropropane	µg/m³	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2)	ND(9.2) ND(9.2)							
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(14) ND(14)							
1,3,5-Trimethylbenzene	µg/m³	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8) 14							
1,3-Dichlorobenzene	µg/m³	ND(12)	3.6 J	3.5 J	ND(12)	ND(12)	ND(12) ND(12)							
1,4-Dichlorobenzene	µg/m³	ND(12)	5.4 J	6.0 J	ND(12)	ND(12)	ND(12) 7.2 J							
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	ND(12)	4.0 J	3.8 J	ND(12)	ND(12)	ND(29) 14							
2-Hexanone	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(16) ND(8.2)							
4-Ethyl toluene	µg/m³	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(9.8)	ND(20) 19							
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(8.2)	ND(41) ND(8.2)							
Acetone	µg/m³	30	190	190	18 J	5.6 J	54 J 21 J							
Benzene	µg/m³	ND(6.4)	1.6 J	1.6 J	ND(6.4)	ND(6.4)	ND(6.4) 7.3							
Benzyl chloride	µg/m³	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21) ND(21)							
Bromodichloromethane	µg/m³	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(13) ND(10)							
Bromoform	µg/m³	ND(21)	ND(21)	ND(21)	ND(21)	ND(21)	ND(21) ND(21)							
Bromomethane (Methyl bromide)	µg/m³	ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(7.8) ND(16)							
Carbon disulfide	µg/m³	1.3 J	ND(12)	ND(12)	ND(12)	ND(12)	ND(12) ND(12)							
Carbon tetrachloride	µg/m³	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(13) ND(25)							
Chlorobenzene	µg/m³	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(6.9)	ND(9.2) ND(6.9)							
Chloroethane	µg/m³	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)	ND(5.3) ND(11)							
Chloroform (Trichloromethane)	µg/m³	ND(7.3)	ND(7.3)	ND(7.3)	ND(7.3)	ND(7.3)	ND(9.8) ND(7.3)							
Chloromethane (Methyl chloride)	µg/m³	ND(8.3)	ND(8.3)	2.4 J	ND(8.3)	ND(8.3)	ND(21) 2.4 J							
cis-1,2-Dichloroethene	µg/m³	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9) ND(7.9)							
cis-1,3-Dichloropropene	µg/m³	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(18) ND(9.1)							
Dibromochloromethane	µg/m³	ND(17)	ND(17)	ND(17)	ND(17)	ND(17)	ND(17) ND(17)							
Dichlorodifluoromethane (CFC-12)	µg/m³	3.9 J	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9)	ND(9.9) 3.8 J							
Ethylbenzene	µg/m³	ND(8.7)	2.4 J	ND(8.7)	ND(8.7)	ND(8.7)	ND(8.7) 32							
Hexachlorobutadiene	µg/m³	ND(110)	ND(110)	ND(110)	ND(110)	ND(110)	ND(110) ND(110)							
m&p-Xylenes	µg/m³	2.9 J	10 J	9.6 J	6.1 J	ND(17)	5.2 J 240							

Table 6

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	MW6-10							
Sample Identification:	GE-48041-050514-CB-002	GE-48041-080615-CB-005	GE-48041-080615-CB-006	GE-48041-081216-DC-005	GE-48041-091417-DC-005	SG-048041-090919-PB-001	GE-48041-091417-DC-006							
Sample Date:	5/5/2014	8/6/2015	8/6/2015	8/12/2016	9/14/2017	9/9/2019	9/14/2017							
Sample Type:	Duplicate													
Units														
Volatile Organic Compounds (VOCs)														
Methylene chloride	µg/m ³	1.9 J	ND(6.9)	ND(6.9)	ND(6.9)	2.0 J	ND(35)							
o-Xylene	µg/m ³	ND(8.7)	4.0 J	3.9 J	2.4 J	ND(8.7)	ND(8.7)							
Tetrachloroethene	µg/m ³	ND(14)	4.7 J	4.8 J	5.9 J	11 J	3.6 J							
Toluene	µg/m ³	9.2	3.6 J	3.4 J	3.2 J	ND(7.5)	ND(38)							
trans-1,2-Dichloroethene	µg/m ³	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)	ND(7.9)							
trans-1,3-Dichloropropene	µg/m ³	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)	ND(9.1)							
Trichloroethene	µg/m ³	ND(11)	3.2 J	3.2 J	3.8 J	5.7 J	2.0 J							
Trichlorofluoromethane (CFC-11)	µg/m ³	ND(11)	ND(11)	ND(11)	ND(11)	ND(11)	1.6 J							
Trifluorotrichloroethane (CFC-113)	µg/m ³	ND(15)	ND(15)	ND(15)	ND(15)	ND(15)	ND(15)							
Vinyl acetate	µg/m ³	ND(14)	ND(14)	ND(14)	ND(14)	ND(14)	ND(35)							
Vinyl chloride	µg/m ³	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)	ND(5.1)							

Notes:

- ND() Not detected at the associated reporting limit.
- U Not detected at the associated reporting limit.
- J Estimated concentration.
- (1) MDEQ Media-Specific Volatilization to Indoor Air Interim Action Screening Levels (MSSLs), August 2017.
 - RIASL - Recommended Interim Action Screening Levels .
 - RIASL₁₂ - Recommended Interim Action Screening Levels for exposures less than 12 hours.
 - TSRIASL₁₂ - Time Sensitive Recommended Interim Action Screening Levels.

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	EX-11 GE-48041-081216-DC-006 8/12/2016	EX-11 SG-48041-091918-DC-004 9/19/2018	EX-11 SG-048041-090919-PB-002 9/9/2019	EX-24 GE-48041-080615-CB-004 8/6/2015	GP1-12 GE-48041-050514-CB-001 5/5/2014	GP1-12 GE-48041-080615-CB-001 8/6/2015	GP1-12 GE-48041-081216-DC-001 8/12/2016	GP1-12 GE-48041-091417-DC-001 9/14/2017
Units								
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	ppbv	ND(21)	ND(8.7)	ND(2.0)	ND(7.3)	ND(1.5)	ND(7.3)	1.0 J
1,1,2,2-Tetrachloroethane	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,1,2-Trichloroethane	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,1-Dichloroethane	ppbv	8.3 J	7.6 J	19	100 J	ND(1.5)	2.1 J	0.80 J
1,1-Dichloroethene	ppbv	ND(55)	ND(23)	0.34 J	ND(20)	ND(4.0)	ND(19)	ND(4.0)
1,2,4-Trichlorobenzene	ppbv	ND(140)	ND(58)	ND(10)	ND(49)	ND(10)	ND(48)	ND(10)
1,2,4-Trimethylbenzene	ppbv	ND(55)	ND(23)	15	8.3 J	ND(4.0)	4.1 J	ND(4.0)
1,2-Dibromoethane (Ethylene dibromide)	ppbv	ND(55)	ND(23)	ND(2.0)	ND(20)	ND(4.0)	ND(19)	ND(4.0)
1,2-Dichlorobenzene	ppbv	ND(27)	ND(12)	1.1 J	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,2-Dichloroethane	ppbv	ND(55)	ND(23)	ND(2.0)	ND(20)	ND(4.0)	9.8 J	ND(4.0)
1,2-Dichloropropane	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,2-Dichlortetrafluoroethane (CFC 114)	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,3,5-Trimethylbenzene	ppbv	ND(27)	ND(12)	2.3	4.4 J	ND(2.0)	ND(9.7)	ND(2.0)
1,3-Dichlorobenzene	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
1,4-Dichlorobenzene	ppbv	ND(27)	ND(12)	1.7 J	5.8 J	ND(2.0)	ND(9.7)	ND(2.0)
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	2100	290	110	300 J	ND(4.0)	ND(19)	ND(4.0)
2-Hexanone	ppbv	ND(27)	ND(12)	ND(4.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
4-Ethyl tolulene	ppbv	ND(27)	5.5 J	17	14 J	ND(2.0)	ND(9.7)	ND(2.0)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	ND(27)	ND(12)	ND(10)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Acetone	ppbv	580	260	370	410 J	24	38 J	7.1 J
Benzene	ppbv	ND(27)	30	150	230 J	ND(2.0)	39	ND(2.0)
Benzyl chloride	ppbv	ND(55)	ND(23)	ND(4.0)	ND(20)	ND(4.0)	ND(19)	ND(4.0)
Bromodichloromethane	ppbv	ND(21)	ND(8.7)	ND(2.0)	ND(7.3)	ND(1.5)	ND(7.3)	ND(1.5)
Bromoform	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Bromomethane (Methyl bromide)	ppbv	ND(55)	ND(23)	ND(2.0)	ND(20)	ND(4.0)	ND(19)	ND(4.0)
Carbon disulfide	ppbv	13 J	ND(23)U	5.9	ND(20)	ND(4.0)	ND(19)	ND(4.0)
Carbon tetrachloride	ppbv	ND(55)	ND(23)	ND(2.0)	ND(20)	ND(4.0)	ND(19)	ND(4.0)
Chlorobenzene	ppbv	ND(21)	3.7 J	8.9	ND(7.3)	ND(1.5)	ND(7.3)	ND(1.5)
Chloroethane	ppbv	ND(55)	ND(23)	20	100 J	ND(4.0)	ND(19)	ND(4.0)
Chloroform (Trichloromethane)	ppbv	ND(21)	ND(8.7)	ND(2.0)	ND(7.3)	ND(1.5)	ND(7.3)	0.94 J
Chloromethane (Methyl chloride)	ppbv	ND(55)	ND(23)	3.3 J	ND(20)	ND(4.0)	ND(19)	ND(4.0)
cis-1,2-Dichloroethene	ppbv	ND(27)	ND(12)	12	7.9 J	ND(2.0)	ND(9.7)	ND(2.0)
cis-1,3-Dichloropropene	ppbv	ND(27)	ND(12)	ND(4.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Dibromochloromethane	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Dichlorodifluoromethane (CFC-12)	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	1.2 J	ND(9.7)	ND(2.0)
Ethylbenzene	ppbv	ND(27)	3.0 J	22	39 J	ND(2.0)	ND(9.7)	ND(2.0)
Hexachlorobutadiene	ppbv	ND(140)	ND(58)	ND(10)	ND(49)	ND(10)	ND(48)	ND(10)
m&p-Xylenes	ppbv	ND(55)	11 J	56	51 J	ND(4.0)	ND(19)U	1.2 J
Methylene chloride	ppbv	ND(27)	ND(12)	ND(10)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
o-Xylene	ppbv	ND(27)	13	62	37 J	ND(2.0)	ND(9.7)U	ND(2.0)
Tetrachloroethene	ppbv	ND(27)	ND(12)	1.7 J	ND(9.8)	0.72 J	4.5 J	4.6
Toluene	ppbv	ND(27)	6.2 J	32	ND(9.8)	0.53 J	2.5 J	0.76 J
trans-1,2-Dichloroethene	ppbv	ND(27)	ND(12)	4.3	2.9 J	ND(2.0)	ND(9.7)	ND(2.0)
trans-1,3-Dichloropropene	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Trichloroethene	ppbv	ND(27)	3.7 J	9.6	ND(9.8)	0.53 J	3.6 J	4.2
Trichlorofluoromethane (CFC-11)	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	2.9
Trifluorotrichloroethane (CFC-113)	ppbv	ND(27)	ND(12)	ND(2.0)	ND(9.8)	ND(2.0)	ND(9.7)	ND(2.0)
Vinyl acetate	ppbv	ND(55)	ND(23)	ND(10)	ND(20)	ND(4.0)	ND(19)	ND(4.0)
Vinyl chloride	ppbv	ND(27)	ND(12)	14	35 J	ND(2.0)	ND(9.7)	ND(2.0)

Notes:

ND() - Not detected at the associated reporting limit.

U Not detected at the associated reporting limit.

J Estimated concentration.

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP1-12	GP1-12	GP1-12	GP1-12	GP3-12	GP3-12	GP3-12	GP3-12	GP3-12	
Sample Identification:	GE-48041-091417-DC-002	SG-48041-091918-DC-001	SG-048041-090919-PB-005	SG-048041-090919-PB-006	GE-48041-050614-CB-004	GE-48041-050614-CB-005	GE-48041-080615-CB-002	GE-48041-081216-DC-002	GE-48041-091417-DC-003	
Sample Date:	9/14/2017	9/19/2018	9/9/2019	9/9/2019	5/6/2014	5/6/2014	8/6/2015	8/12/2016	9/14/2017	
Sample Type:	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	
Units										
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	ppbv	0.73 J	0.98 J	0.70 J	0.58 J	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)	ND(2.9)
1,1,2,2-Tetrachloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,1,2-Trichloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,1-Dichloroethane	ppbv	ND(1.5)	ND(1.5)	ND(2.0)	ND(2.0)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)	ND(2.9)
1,1-Dichloroethene	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
1,2,4-Trichlorobenzene	ppbv	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(43)	ND(20)
1,2,4-Trimethylbenzene	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	5.8 J	ND(17)	ND(7.8)
1,2-Dibromoethane (Ethylene dibromide)	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
1,2-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,2-Dichloroethane	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
1,2-Dichloropropane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,3,5-Trimethylbenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,3-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
1,4-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.4	4.8 J	ND(8.6)
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	ND(4.0)	ND(4.0)	ND(10)	ND(10)	ND(4.0)	ND(4.0)	7.7 J	23	23
2-Hexanone	ppbv	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
4-Ethyl toluene	ppbv	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	ND(2.0)	ND(2.0)	ND(10)	ND(10)	ND(2.0)	ND(2.0)	36	8.6	1.4 J
Acetone	ppbv	3.6 J	7.9 J	ND(75)	ND(75)	79	67	430	440	320
Benzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.45 J	ND(10)	ND(8.6)	ND(3.9)
Benzyl chloride	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Bromodichloromethane	ppbv	ND(1.5)	ND(1.5)	ND(2.0)	ND(2.0)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)	ND(2.9)
Bromoform	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Bromomethane (Methyl bromide)	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Carbon disulfide	ppbv	1.9 J	ND(4.0)U	ND(4.0)	ND(4.0)	1.4 J	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Carbon tetrachloride	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Chlorobenzene	ppbv	ND(1.5)	ND(1.5)	ND(2.0)	ND(2.0)	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)	ND(2.9)
Chloroethane	ppbv	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Chloroform (Trichloromethane)	ppbv	2.0	2.2	1.3 J	1.0 J	ND(1.5)	ND(1.5)	ND(7.5)	ND(6.5)	ND(2.9)
Chloromethane (Methyl chloride)	ppbv	ND(4.0)	ND(4.0)	ND(10)	ND(10)	1.3 J	1.1 J	ND(20)	ND(17)	ND(7.8)
cis-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
cis-1,3-Dichloropropene	ppbv	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Dibromochloromethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Dichlorodifluoromethane (CFC-12)	ppbv	0.74 J	0.75 J	0.84 J	ND(2.0)	ND(2.0)	0.75 J	ND(10)	ND(8.6)	ND(3.9)
Ethylbenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Hexachlorobutadiene	ppbv	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(50)	ND(43)	ND(20)
m&p-Xylenes	ppbv	ND(4.0)	ND(4.0)	1.3 J	ND(2.0)	0.72 J	1.1 J	ND(20)U	ND(17)	ND(7.8)
Methylene chloride	ppbv	ND(2.0)	ND(2.0)	ND(10)	ND(10)	0.84 J	1.1 J	ND(10)	ND(8.6)	ND(3.9)
o-Xylene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)U	ND(8.6)	ND(3.9)
Tetrachloroethene	ppbv	5.4	4.1	3.8	2.7	ND(2.0)	ND(2.0)	9.5 J	10	13
Toluene	ppbv	ND(2.0)	ND(2.0)	ND(10)	ND(10)	35 J	82 J	ND(10)	ND(8.6)	ND(3.9)
trans-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
trans-1,3-Dichloropropene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Trichloroethene	ppbv	4.3	3.4	2.6	1.9 J	ND(2.0)	ND(2.0)	3.6 J	4.8 J	4.9
Trichlorofluoromethane (CFC-11)	ppbv	3.0	3.6	2.7	2.1	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	2.2 J
Trifluorotrichloroethane (CFC-113)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)
Vinyl acetate	ppbv	ND(4.0)	ND(4.0)	ND(10)	ND(10)	ND(4.0)	ND(4.0)	ND(20)	ND(17)	ND(7.8)
Vinyl chloride	ppbv	ND(2.0)	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	ND(10)	ND(8.6)	ND(3.9)

Notes:

ND() - Not detected at the associated reporting limit.

U - Not detected at the associated reporting limit.

J - Estimated concentration.

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP3-12	GP4-12	GP4-12	GP4-12	GP4-12	GP5-12	GP5-12	GP5-12	GP5-12	GP5-12	GP5-12
Sample Identification:	SG-048041-090919-PB-004	GE-48041-091417-DC-004	SG-48041-091918-DC-002	SG-48041-091918-DC-003	GE-48041-050614-CB-003	GE-48041-080615-CB-003	GE-48041-081216-DC-003	GE-48041-081216-DC-004	SG-048041-090919-PB-003		
Sample Date:	9/9/2019	9/14/2017	9/19/2018	9/19/2018	5/6/2014	8/6/2015	8/12/2016	8/12/2016			
Sample Type:				Duplicate							
Units											
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	ppbv	ND(2.0)	ND(1.5)	ND(1.5)	ND(2.0)						
1,1,2,2-Tetrachloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
1,1,2-Trichloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
1,1-Dichloroethane	ppbv	ND(2.0)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	0.49 J	0.74 J	0.76 J	0.58 J
1,1-Dichloroethene	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
1,2,4-Trichlorobenzene	ppbv	ND(10)	ND(10)	ND(10)							
1,2,4-Trimethylbenzene	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	4.8	ND(4.0)	ND(4.0)	0.74 J
1,2-Dibromoethane (Ethylene dibromide)	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
1,2-Dichlorobenzene	ppbv	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)						
1,2-Dichloroethane	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
1,2-Dichloropropane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
1,3,5-Trimethylbenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)U	ND(2.0)	ND(2.0)	ND(2.0)
1,3-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
1,4-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	4.6	ND(2.0)	ND(2.0)	ND(2.0)
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	11	ND(4.0)	ND(4.0)	1.1 J	3.5 J	1.1 J	ND(4.0)	ND(4.0)	ND(4.0)	ND(10)
2-Hexanone	ppbv	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)						
4-Ethyl toluene	ppbv	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)						
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	ND(10)	ND(2.0)	ND(2.0)	ND(10)						
Acetone	ppbv	120	8.9 J	ND(10)	6.5 J	63	83	3.6 J	4.5 J	29 J	
Benzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
Benzyl chloride	ppbv	ND(4.0)	ND(4.0)	ND(4.0)							
Bromodichloromethane	ppbv	ND(2.0)	ND(1.5)	ND(1.5)	ND(2.0)						
Bromoform	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
Bromomethane (Methyl bromide)	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
Carbon disulfide	ppbv	0.32 J	ND(4.0)	ND(4.0)U	ND(4.0)U	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Carbon tetrachloride	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
Chlorobenzene	ppbv	ND(2.0)	ND(1.5)	ND(1.5)	ND(2.0)						
Chloroethane	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(2.0)						
Chloroform (Trichloromethane)	ppbv	ND(2.0)	ND(1.5)	ND(1.5)	ND(2.0)						
Chloromethane (Methyl chloride)	ppbv	ND(10)	ND(4.0)	ND(4.0)	ND(10)						
cis-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.66 J	1.2 J	1.3 J	1.3 J
cis-1,3-Dichloropropene	ppbv	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)						
Dibromochloromethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
Dichlorodifluoromethane (CFC-12)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.0	1.6 J	2.2	2.2	2.8	
Ethylbenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.94 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Hexachlorobutadiene	ppbv	ND(10)	ND(10)	ND(10)							
m&p-Xylenes	ppbv	ND(2.0)	ND(4.0)	ND(4.0)	ND(4.0)	0.97 J	5.4	0.63 J	0.66 J	2.2	
Methylene chloride	ppbv	ND(10)	ND(2.0)	ND(2.0)	ND(10)						
o-Xylene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.2)U	ND(2.0)	ND(2.0)	0.67 J
Tetrachloroethene	ppbv	7.0	0.50 J	ND(2.0)	ND(2.0)	0.75 J	1.4 J	2.5	2.6	2.2	
Toluene	ppbv	ND(10)	ND(2.0)	ND(2.0)	ND(2.0)	2.3	0.78 J	ND(2.0)	ND(2.0)	ND(2.0)	1.4 J
trans-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
trans-1,3-Dichloropropene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
Trichloroethene	ppbv	2.7	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	5.4	10	14	15	13
Trichlorofluoromethane (CFC-11)	ppbv	1.5 J	1.8 J	1.6 J	1.7 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Trifluorotrichloroethane (CFC-113)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)							
Vinyl acetate	ppbv	ND(10)	ND(4.0)	ND(4.0)	ND(10)						
Vinyl chloride	ppbv	ND(4.0)	ND(2.0)	ND(2.0)	ND(4.0)						

Notes:

ND() - Not detected at the associated reporting limit

Table 7

Soil Gas Analytical Results
Quarterly Progress Report #26 (July, August and September 2019)
Former Dearborn Refining Site
Dearborn, Michigan

Sample Location:	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	GP7-12	MW6-10
Sample Identification:	GE-48041-050514-CB-002	GE-48041-080615-CB-005	GE-48041-080615-CB-006	GE-48041-081216-DC-005	GE-48041-091417-DC-005	SG-048041-090919-PB-001	GE-48041-091417-DC-006	
Sample Date:	5/5/2014	8/6/2015	8/6/2015	8/12/2016	9/14/2017	9/9/2019	9/14/2017	
Sample Type:	Duplicate							
Units								
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	ppbv	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(2.0)	ND(1.5)
1,1,2,2-Tetrachloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,1,2-Trichloroethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,1-Dichloroethane	ppbv	ND(1.5)	1.1 J	1.1 J	0.74 J	0.59 J	0.35 J	ND(1.5)
1,1-Dichloroethene	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
1,2,4-Trichlorobenzene	ppbv	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2,4-Trimethylbenzene	ppbv	ND(4.0)	1.1 J	1.0 J	ND(4.0)	ND(4.0)	ND(2.0)	9.2
1,2-Dibromoethane (Ethylene dibromide)	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
1,2-Dichlorobenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(2.0)
1,2-Dichloroethane	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
1,2-Dichloropropane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,2-Dichlortetrafluoroethane (CFC 114)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,3,5-Trimethylbenzene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.9
1,3-Dichlorobenzene	ppbv	ND(2.0)	0.60 J	0.59 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,4-Dichlorobenzene	ppbv	ND(2.0)	0.89 J	1.0 J	ND(2.0)	ND(2.0)	ND(2.0)	1.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppbv	ND(4.0)	1.4 J	1.3 J	ND(4.0)	ND(4.0)	ND(10)	4.7
2-Hexanone	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(2.0)
4-Ethyl toluene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(4.0)	3.8
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)	ND(2.0)
Acetone	ppbv	13	79	80	7.8 J	2.4 J	23 J	8.9 J
Benzene	ppbv	ND(2.0)	0.50 J	0.49 J	ND(2.0)	ND(2.0)	ND(2.0)	2.3
Benzyl chloride	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Bromodichloromethane	ppbv	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(2.0)	ND(1.5)
Bromoform	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Bromomethane (Methyl bromide)	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
Carbon disulfide	ppbv	0.42 J	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Carbon tetrachloride	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
Chlorobenzene	ppbv	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(2.0)	ND(1.5)
Chloroethane	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(2.0)	ND(4.0)
Chloroform (Trichloromethane)	ppbv	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(2.0)	ND(1.5)
Chloromethane (Methyl chloride)	ppbv	ND(4.0)	ND(4.0)	1.1 J	ND(4.0)	ND(4.0)	ND(10)	1.1 J
cis-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
cis-1,3-Dichloropropene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(2.0)
Dibromochloromethane	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Dichlorodifluoromethane (CFC-12)	ppbv	0.79 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.77 J
Ethylbenzene	ppbv	ND(2.0)	0.55 J	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	7.4
Hexachlorobutadiene	ppbv	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
m&p-Xylenes	ppbv	0.66 J	2.3 J	2.2 J	1.4 J	ND(4.0)	1.2 J	56
Methylene chloride	ppbv	0.56 J	ND(2.0)	ND(2.0)	ND(2.0)	0.58 J	ND(10)	0.91 J
o-Xylene	ppbv	ND(2.0)	0.92 J	0.90 J	0.54 J	ND(2.0)	ND(2.0)	15
Tetrachloroethene	ppbv	ND(2.0)	0.70 J	0.71 J	0.87 J	1.6 J	0.53 J	2.1
Toluene	ppbv	2.4	0.96 J	0.91 J	0.86 J	ND(2.0)	ND(10)	3.4
trans-1,2-Dichloroethene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
trans-1,3-Dichloropropene	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Trichloroethene	ppbv	ND(2.0)	0.60 J	0.59 J	0.71 J	1.1 J	0.36 J	0.79 J
Trichlorofluoromethane (CFC-11)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.29 J	ND(2.0)
Trifluorotrichloroethane (CFC-113)	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vinyl acetate	ppbv	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(10)	ND(4.0)
Vinyl chloride	ppbv	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(4.0)	ND(2.0)

Notes:

ND() - Not detected at the associated reporting limit.

U - Not detected at the associated reporting limit.

J - Estimated concentration.

Attachment A.1 Inspection Logs

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION:

0	9	0	9	1	9
(MM	DD	YY)			

 To _____

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
MW1-08	N/A	✓	N/A	✓		8.48		
MW2-08	N/A	✓	N/A	✓		9.01		
MW3R-08	N/A	✓	N/A	✓		6.90		
MW4-08	N/A	✓	N/A	✓		8.78		
MW5-08	N/A	✓	N/A	✓		4.12		
MW6-10	N/A	✓	N/A	✓		9.77		DTP: 9.76
MW7-10	N/A	✓	N/A	✓		10.98		DTP: 9.38
MW8-10	N/A	✓	N/A	✓		9.38		

Additional Comments: _____

Notes: _____

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION:

0	9	0	9	1	9
(MM	DD	YY)			

 To

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
MW9-10	N/A	✓	N/A	✓		9.19		
MW10-10	N/A	✓	N/A	✓		7.22		DTP: 7.12
MW11-11	N/A	-	-	-		3.16		
MW12-11								
MW13-11	N/A	✓	N/A	✓		4.94		
MW14-11	N/A	✓	N/A	✓		5.05		
MW15-11	N/A	✓	N/A	✓		4.21		
MW16-11	N/A	✓	N/A	✓		4.33		

Additional Comments: _____

Notes: _____

- (1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

WELL INSPECTION SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak

SUPERVISOR: _____

DATE OF INSPECTION:

0	9	0	9	1	9
(MM	DD	YY)			

 To _____

Well I.D. Number	Lock	Surface Seal	Protective Casing	Riser	Sediment	Water Level (ft. BTOC)	Well Depth (ft. BTOC)	Other Comments
TW1	N/A	✓	N/A	✓		9.71		DTP: 9.48
TW2	N/A	✓	N/A	✓		9.44		DTP: 9.43

Additional Comments: _____

Notes: _____

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

GAS PROBE INSPECTION AND MONITORING SUMMARY⁽¹⁾

PROJECT NAME: Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

PROPERTY OWNER: City of Dearborn

INSPECTION CREW MEMBERS: Philip Bielak SUPERVISOR: _____

DATE OF INSPECTION:

0		9		0		6		1		9
(MM			DD			YY)				

 To

<i>Gas Probe I.D. Number</i>	<i>Lock</i>	<i>Surface Seal</i>	<i>Protective Casing</i>	<i>Pressure Reading</i>	<i>Time of Reading</i>	<i>Measurement Method</i>	<i>Other Comments</i>
GP-01	N/A	✓	N/A	0.00	12:20	-	
GP-02	N/A	✓	N/A	0.00	12:40	-	
GP-03	N/A	✓	N/A	0.08	12:45	-	
GP-04	N/A	✓	N/A	-0.30	13:10	-	
GP-05	N/A	✓	N/A	-0.01	13:15	-	
GP-06	N/A	✓	N/A	-0.54	13:35	-	
GP-07	N/A	✓	N/A	0.00	15:10	-	
GP-08	N/A	✓	N/A	**	** 12:15	-	**

Additional Comments: ** - No Reading, No flow when Gas Monitor connected

Notes:

- (1) Inspections will be completed quarterly during and subsequent to operation of the Multi-Phase Extraction (MPE) System for up to 10 years.

COVER SYSTEM INSPECTION LOG

PROJECT NAME:

Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan

LOCATION:

Dearborn, Michigan

PROPERTY OWNER:

City of Dearborn

PROJECT NUMBER:

48041

DATE:

0 | 9 | 2 | 4 | 1 | 9
(MM DD YY)

INSPECTOR(S):

Al Loebach, P.E.

<i>Item</i>	<i>Inspect For</i>	<i>Action Required</i>	<i>Comments</i>
1	Cover System ⁽¹⁾		
	Surface Conditions <ul style="list-style-type: none">- exposed geotextile fabric- erosion and/or sloughing- ponding of water- established vegetative ground cover- subsidence or settlement		<u>no issues</u> <u>no issues</u> <u>no issues</u> <u>no issues</u> <u>no issues</u>
2.	Stormwater Retention Area and Associated Swale, Grass-lined Ditch, and Berms ⁽¹⁾		
	Stormwater Management <ul style="list-style-type: none">- sediment accumulation (≤6 inches in Retention Area)- debris construction- visible signs of erosion- established vegetation- signs of seepage through berms- accumulation of trash		<u>no issues</u> <u>no issues</u> <u>no issues</u> <u>no issues</u> <u>no issues</u> <u>no issues</u>
3.	Other Site Systems ⁽¹⁾		
	Site Fencing <ul style="list-style-type: none">- integrity of fence- integrity of gates- integrity of locks- placement and condition of signs	<u>City pursuing with adjacent business</u>	<u>exist. damage, no breach along north</u> <u>no issues</u> <u>no issues</u> <u>no issues</u>

Notes:



= OK



=

Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.

TREATED WATER CONVEYANCE PIPE (UNDER GRAVEL DRIVEWAY) INSPECTION LOG

PROJECT NAME:	Former Dearborn Refining Site - 3901 Wyoming Avenue, Dearborn, Michigan	LOCATION:	Dearborn, Michigan
PROPERTY OWNER:	City of Dearborn		
PROJECT NUMBER:	48041	DATE:	<u>0 9 2 4 1 9</u> (MM DD YY)
INSPECTOR(S):	<u>Al Loebach, P.E., City of Dearborn</u>		

Item	Inspect For	Action Required	Comments
1	Pipe ⁽¹⁾		
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Condition/ Functionality <ul style="list-style-type: none"> - integrity - sediment accumulation - other blockage 		No issues No issues No issues

Notes:

<input checked="" type="checkbox"/>	= OK
<input type="checkbox"/>	= Issues Present

(1) Inspections will be completed monthly during operation of the Multi-Phase Extraction (MPE) System and quarterly thereafter for up to 10 years.
Photographs attached.

Attachment A.2

City of Dearborn

Site Photographs



Photo 1 – 09/24/2019 Southerly fence line looking east



Photo 2 – 09/24/2019 Westerly fence line looking south



City of Dearborn Site Photographs



Photo 3 – 09/24/2019 Northerly fence line looking west



Photo 4 – 09/24/2019 Easterly fence line looking south



City of Dearborn Site Photographs



Photo 5 – 09/24/2019 Driveway looking south



Photo 6 – 09/24/2019 Driveway looking west



City of Dearborn Site Photographs

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Photo 7 – 09/24/2019 Driveway looking north



Photo 8 – 09/24/2019 Pond looking east



City of Dearborn Site Photographs



Photo 9 – 09/24/2019 Pond looking west



City of Dearborn Site Photographs

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